

The following products are certified to be in compliance with the RoHS (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 08 June 2011).

Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	GA343QR7GD222KW01L	110.01	Ceramic element	Ceramics	87.896	Barium oxide, obtair	1304-28-5
						Titanium dioxide	13463-67-7
						Misc	_
			Outer electrode	Copper alloys	5.6547	Copper	7440-50-8
				Glass	0.6283	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.288	Nickel	7440-02-0
			Inner electrode	Nickel and Nickel alloys	14.752	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.781	Tin	7440-31-5
			Ink	Coating (Other compounds)	0.01	Carbon black	1333-86-4
						PAK	-

DomieBoatig Signature : Donnie Boatright Corp. QA Manag Murata Americas Name: Title: Company: Date (mm/dd/yy)

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	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	60			С
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	GCM188R71H104KA57J	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100]!
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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	GCM32ER70J476KE19L	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10			
			Outer electrode	Copper alloys	7.0569	Copper	7440-50-8	100			
				Glass	0.7841	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.296	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	8.034	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.808	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GCM32ER71H105KA01L	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	7.0569	Copper	7440-50-8	100]
				Glass	0.7841	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80]
			Nickel Plating Layer	Nickel plating	0.296	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	8.034	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.808	Tin	7440-31-5	100]!
		•			•	•	•		-> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

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Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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	GCM32ER71H105KA37L	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	7.0569	Copper	7440-50-8	100]
				Glass	0.7841	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.296	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	8.034	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.808	Tin	7440-31-5	100			
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Customer Part No	. Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	GJM0335C1ER80BB01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8
				Glass	0.008	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.007	Nickel	7440-02-0
			Inner electrode	Copper alloys	0.009	Copper	7440-50-8
			Tin Plating Layer	Tin plating	0.02	Tin	7440-31-5
			Ceramic element	Ceramics	0.214	Calcium oxide	1305-78-8
						Misc	-
						Zirconium oxide	1314-23-4
						Manganese(II) oxide	1344-43-0

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Customer Part N	o. Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	GJM1555C1H150JB01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8
				Glass	0.0202	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0
			Inner electrode	Copper alloys	0.295	Copper	7440-50-8
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8
						Misc	-
						Zirconium oxide	1314-23-4
						Manganese(II) oxide	1344-43-0

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Customer Part No	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	GJM1555C1H2R2BB01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8
				Glass	0.0202	diboron trioxide; boi	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0
			Inner electrode	Copper alloys	0.295	Copper	7440-50-8
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8
						Misc	_
						Zirconium oxide	1314-23-4
						Manganese(II) oxide	1344-43-0

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	GJM1555C1H4R0WB01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8
				Glass	0.0202	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0
			Inner electrode	Copper alloys	0.295	Copper	7440-50-8
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8
						Misc	—
						Zirconium oxide	1314-23-4
						Manganese(II) oxide	1344-43-0

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	GQM2195C1H220JB01D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8
				Glass	0.13	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.053	Nickel	7440-02-0
			Inner electrode	Copper alloys	2.149	Copper	7440-50-8
			Tin Plating Layer	Tin plating	0.145	Tin	7440-31-5
			Ceramic element	Ceramics	5.853	Calcium oxide	1305-78-8
						Misc	-
						Zirconium oxide	1314-23-4
						Manganese(II) oxide	1344-43-0

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100			С
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	GQM2195C2E560GB12D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			С
				Glass	0.13	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.053	Nickel	7440-02-0	100			
			Inner electrode	Copper alloys	2.149	Copper	7440-50-8	100			
			Tin Plating Layer	Tin plating	0.145	Tin	7440-31-5	100			
			Ceramic element	Ceramics	5.853	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GQM2195C2E620GB12D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			С
				Glass	0.13	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.053	Nickel	7440-02-0	100			
			Inner electrode	Copper alloys	2.149	Copper	7440-50-8	100			
			Tin Plating Layer	Tin plating	0.145	Tin	7440-31-5	100			
			Ceramic element	Ceramics	5.853	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50]
						Misc	-	10			ן ן
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

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	GQM2195C2E750GB12D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			С
				Glass	0.13	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.053	Nickel	7440-02-0	100			
			Inner electrode	Copper alloys	2.149	Copper	7440-50-8	100			
			Tin Plating Layer	Tin plating	0.145	Tin	7440-31-5	100			
			Ceramic element	Ceramics	5.853	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
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	GRM0335C1E220JA01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8	100			С
				Glass	0.008	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.007	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.009	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.02	Tin	7440-31-5	100			
			Ceramic element	Ceramics	0.214	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM0335C1E390JA01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8	100			С
				Glass	0.008	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.007	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.009	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.02	Tin	7440-31-5	100			
			Ceramic element	Ceramics	0.214	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
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	GRM0335C1E5R6BA01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8	100			С
				Glass	0.008	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80]
			Nickel Plating Layer	Nickel plating	0.007	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.009	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.02	Tin	7440-31-5	100]
			Ceramic element	Ceramics	0.214	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50]
						Misc	-	10			
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Customer Part No.		Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM0335C1H121JA01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8	100			С
				Glass	0.008	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.007	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.02	Tin	7440-31-5	100			
			Ceramic element	Ceramics	0.214	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10]
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

Signature :	DomieBoattight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)	4/3/18	
Date (mm/dd/yy)	4/3/18	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM0335C1H270JA01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8	100			С
				Glass	0.008	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.007	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.009	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.02	Tin	7440-31-5	100			
			Ceramic element	Ceramics	0.214	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM033R60J224ME90D	0.33	Ceramic element	Ceramics	0.22	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.0684	Copper	7440-50-8	100			
				Glass	0.0076	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.007	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.008	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.019	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM033R61A272KA01D	0.33	Ceramic element	Ceramics	0.22	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10			
			Outer electrode	Copper alloys	0.0684	Copper	7440-50-8	100			
				Glass	0.0076	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.007	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.008	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.019	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Signature :	DomieBoatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM153R60G225ME95D	1	Ceramic element	Ceramics	0.599	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.0909	Copper	7440-50-8	100			
				Glass	0.0101	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.268	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.023	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H101FA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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	GRM1555C1H102FA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

Signature :	Damie Baatrig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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	GRM1555C1H120GA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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	GRM1555C1H150FA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50]
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H151FA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H160GA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatug/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H180JA01J	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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	GRM1555C1H1R5BA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

Signature :	Damie Baatrig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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	GRM1555C1H1R5CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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	GRM1555C1H1R5CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
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	GRM1555C1H1R8CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H1R8CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H2R7CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10]
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DomieBoatrig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H301GA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

Signature :	Damie Baatrig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H3R0CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10]
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

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Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H3R9CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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	GRM1555C1H4R7CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
							~	* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

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Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H681FA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10]
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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	GRM1555C1H6R8CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Name:	Donnie Boatright
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Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H820JA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Name:	Donnie Boatright
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Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H821GA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10]
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DomieBatug/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1HR80WA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Name:	Donnie Boatright
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Company:	Murata Americas
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	GRM1555C1HR90BA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			С
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10]
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	Damie Baatrig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1557U1A302JA01D	1.6	Ceramic element	Ceramics	1.034	Titanium dioxide	13463-67-7	20			С
						Zirconium oxide	1314-23-4	35			
						Calcium oxide	1305-78-8	40			
						Misc	-	5			
			Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			
				Glass	0.0202	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.019	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.295	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
						Signature :	DomieBatight	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not (Compliant

Signature :	Domie Boatig MA
Name:	Donnie Boatright
Title:	Corp. QA Manage
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R60G225ME15D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM155R60J105ME19D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DomieBoatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
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	GRM155R60J184KE01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM155R60J225ME15D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DamieBatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		

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The following products are certified to be in compliance with the RoHS (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 08 June 2011).

Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R60J225ME95D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	Domie Baatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R61A225KE95D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10]
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100]
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100]
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R61C105KA12D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R61C225ME44D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71A104KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10]
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100]
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71A473KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10]
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100]
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100]
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant
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Signature :	Domie Baatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71C153KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	Domie Baatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71C183JA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71C223KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100]
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100]
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DamieBatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71H122KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71H152KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71H222KA01J	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	Domie Baatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71H271KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10]
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100]
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100]
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM155R71H331KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10]
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100]
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
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	GRM155R71H473KE14D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.1719	Copper	7440-50-8	100			
				Glass	0.0191	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.279	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.047	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

DomieBoatight
Donnie Boatright
Corp. QA Manager
Murata Americas

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1885C1H101JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			С
				Glass	0.1171	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.047	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.726	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.129	Tin	7440-31-5	100			
			Ceramic element	Ceramics	4.227	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatrig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18
Date (mm/dd/yy)	4/3/18

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	GRM1885C1H120JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			С
				Glass	0.1171	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.047	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.726	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.129	Tin	7440-31-5	100			
			Ceramic element	Ceramics	4.227	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
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	GRM1885C1H181JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			С
				Glass	0.1171	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.047	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.726	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.129	Tin	7440-31-5	100			
			Ceramic element	Ceramics	4.227	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10]
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DamieBaatug/WA
Name:	Donnie Boatright
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1885C1H202JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			С
				Glass	0.1171	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.047	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.726	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.129	Tin	7440-31-5	100			
			Ceramic element	Ceramics	4.227	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatrig/WA
Name:	Donnie Boatright
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	GRM1885C1H220JA01B	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			С
				Glass	0.1171	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.047	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.726	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.129	Tin	7440-31-5	100			
			Ceramic element	Ceramics	4.227	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM1885C1H2R2CA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			С
				Glass	0.1171	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.047	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.726	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.129	Tin	7440-31-5	100			
			Ceramic element	Ceramics	4.227	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM1885C1H3R3CA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			С
				Glass	0.1171	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.047	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.726	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.129	Tin	7440-31-5	100			
			Ceramic element	Ceramics	4.227	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM1885C1H7R0CA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			С
				Glass	0.1171	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.047	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.726	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.129	Tin	7440-31-5	100			
			Ceramic element	Ceramics	4.227	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM1885C2A180JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			С
				Glass	0.1171	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.047	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.726	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.129	Tin	7440-31-5	100			
			Ceramic element	Ceramics	4.227	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R60J225KE19D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	Domie Boatig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R61A105MA61D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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	GRM188R70J105KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Company:	Murata Americas
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	GRM188R71A154KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

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	GRM188R71C103KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM188R71C105KA12D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM188R71C333KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R71C473KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	Domie Baatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R71E473KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100]
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100]
	1		I in Plating Layer	l in plating	0.121	lin	/440-31-5		-> C ; RoHS Complia	nt, NG ; RoHS Not	L Compliant

Signature : Name: Title: Company: Date (mm/dd	DamieBaatig/A- Donnie Boatright Corp. QA Manag Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R71H122KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R71H223KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100]
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100]
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R71H333KA61D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R71H471KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

)omieBoatig/WA
)onnie Boatright
Corp. QA Manager
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R71H681KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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	GRM188R72A103KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10]
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100]
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80]
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

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	GRM188R72A104KA35D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DamieBatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R72A221KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	0.9927	Copper	7440-50-8	100			
				Glass	0.1103	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.044	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.685	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.121	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

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Signature :	DamieBoatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM2165C1H331JA01D	6.4	Outer electrode	Copper alloys	0.8154	Copper	7440-50-8	100			С
				Glass	0.0906	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.038	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	1.87	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.104	Tin	7440-31-5	100			
			Ceramic element	Ceramics	3.482	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DamieBaatug/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM2165C1H391JA01D	6.4	Outer electrode	Copper alloys	0.8154	Copper	7440-50-8	100			С
				Glass	0.0906	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.038	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	1.87	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.104	Tin	7440-31-5	100			
			Ceramic element	Ceramics	3.482	Calcium oxide	1305-78-8	40			
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18

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Customer Part No.		Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM2165C1H471JA01D	6.4	Outer electrode	Copper alloys	0.8154	Copper	7440-50-8	100			С
				Glass	0.0906	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.038	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	1.87	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.104	Tin	7440-31-5	100			
			Ceramic element	Ceramics	3.482	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatrig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM216R71H223KA01D	9.6	Ceramic element	Ceramics	5.43	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10			
			Outer electrode	Copper alloys	1.1655	Copper	7440-50-8	100			
				Glass	0.1295	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.054	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.673	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.148	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM216R71H682KA01D	9.6	Ceramic element	Ceramics	5.43	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	1.1655	Copper	7440-50-8	100]
				Glass	0.1295	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.054	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.673	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.148	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatight
Name:	Donnie Boatright
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM2195C1H103JA01D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			С
				Glass	0.13	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.053	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.149	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.145	Tin	7440-31-5	100			
			Ceramic element	Ceramics	5.853	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatig/W
Name:	Donnie Boatright
Title:	Corp. QA Manager
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM2195C1H821JA01D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			С
				Glass	0.13	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.053	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	2.149	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.145	Tin	7440-31-5	100			
			Ceramic element	Ceramics	5.853	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50]
						Misc	-	10			!
	1			1	1			* EU-RoHS(C/NG) -	> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

Signature :	DomieBoatrig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18
Date (mm/dd/yy)	4/3/18

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM219R61C226ME15L	11	Ceramic element	Ceramics	7.001	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	1.2825	Copper	7440-50-8	100			
				Glass	0.1425	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.058	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.357	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.159	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM219R71C224KA01D	11	Ceramic element	Ceramics	7.001	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	1.2825	Copper	7440-50-8	100			
				Glass	0.1425	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.058	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.357	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.159	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	DomieBcatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM219R71H273KA01D	11	Ceramic element	Ceramics	7.001	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	1.2825	Copper	7440-50-8	100			
				Glass	0.1425	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.058	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.357	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.159	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	Damie Baatig/WA
Name:	Donnie Boatright
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM21AR72E102KW01D	13	Ceramic element	Ceramics	8.648	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	1.4904	Copper	7440-50-8	100			
				Glass	0.1656	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.067	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.446	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.183	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatigMA
Name:	Donnie Boatright
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Customer Part No.		Weight (mg)	Component Part	Material Name	material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
GRM	M21B5C1H223JA01L	16	Outer electrode	Copper alloys	1.908	Copper	7440-50-8	100			С
				Glass	0.212	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.084	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.659	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.231	Tin	7440-31-5	100			
			Ceramic element	Ceramics	10.906	Calcium oxide	1305-78-8	40]
						Zirconium oxide	1314-23-4	50			
						Misc	-	10	-> C ; RoHS_Complia		

Signature :	DomieBoatrig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	4/3/18
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM21BR60J476ME15L	19	Ceramic element	Ceramics	13.304	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	2.1339	Copper	7440-50-8	100			
				Glass	0.2371	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.094	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.973	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.258	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatight
Name:	Donnie Boatright
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Company:	Murata Americas
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	GRM21BR61A226ME51L	19	Ceramic element	Ceramics	13.304	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10]
			Outer electrode	Copper alloys	2.1339	Copper	7440-50-8	100			
				Glass	0.2371	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.094	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.973	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.258	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM21BR61A475KA73L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	1.9089	Copper	7440-50-8	100]
				Glass	0.2121	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.084	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.66	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.231	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

		· · ·
Signature :	DomieBcatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		
Title:	Corp. QA Manager	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM21BR71C154KA01L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	1.9089	Copper	7440-50-8	100]
				Glass	0.2121	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.084	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.66	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.231	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Signature :	DamieBatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM21BR71E224KA01L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	1.9089	Copper	7440-50-8	100			
				Glass	0.2121	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.084	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.66	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.231	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

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Signature :	DamieBoatigWA	
Name:	Donnie Boatright	
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Company:	Murata Americas	
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM21BR71H474KA88L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	1.9089	Copper	7440-50-8	100			
				Glass	0.2121	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.084	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.66	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.231	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

		-0
Signature :	DamieBatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
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	GRM21BR71H683KA01L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	-	10]
			Outer electrode	Copper alloys	1.9089	Copper	7440-50-8	100]
				Glass	0.2121	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80]
			Nickel Plating Layer	Nickel plating	0.084	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	2.66	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.231	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Signature :	DomieBcatight	
Name:	Donnie Boatright	
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	GRM21BR72A103KA01L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	1.9089	Copper	7440-50-8	100]
				Glass	0.2121	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.084	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	2.66	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.231	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM31BR72J103KW01L	40	Ceramic element	Ceramics	31.066	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	3.0564	Copper	7440-50-8	100			
				Glass	0.3396	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.136	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	5.029	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.373	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM31CR60J226KE19L	52	Ceramic element	Ceramics	41.886	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	3.8232	Copper	7440-50-8	100]
				Glass	0.4248	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.168	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	5.24	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.458	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM31CR61A475KA01L	52	Ceramic element	Ceramics	43.267	Barium oxide, obtair	1304-28-5	60		С	С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			1
			Outer electrode	Copper alloys	3.9492	Copper	7440-50-8	100			
				Glass	0.4388	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.173	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	3.698	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.474	Tin	7440-31-5	100]
								* EU-RoHS(C/NG) ·	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	Domie Boatig/WA	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM31CR71A106KA01L	52	Ceramic element	Ceramics	41.886	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	3.8232	Copper	7440-50-8	100			
				Glass	0.4248	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.168	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	5.24	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.458	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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	GRM31CR71E335KA88L	52	Ceramic element	Ceramics	41.886	Barium oxide, obtair	1304-28-5	60		С	С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	3.8232	Copper	7440-50-8	100]
				Glass	0.4248	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.168	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	5.24	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.458	Tin	7440-31-5	100]
			Tin Plating Layer	Tin plating	0.458	Tin	7440-31-5		-> C ; RoHS Complia	nt, NG ; RoHS Not	L Compliant

Signature :	Domie Boatig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM31CR72A105KA01L	52	Ceramic element	Ceramics	41.886	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	3.8232	Copper	7440-50-8	100			
				Glass	0.4248	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.168	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	5.24	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.458	Tin	7440-31-5	100]
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM31MR71H154KA01L	34	Ceramic element	Ceramics	26.03	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	2.6361	Copper	7440-50-8	100			
				Glass	0.2929	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.118	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	4.6	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.323	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Signature :	DamieBoatigWA	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM32DR72E104KW01L	95	Ceramic element	Ceramics	78.498	Barium oxide, obtair	1304-28-5	60			C
						Titanium dioxide	13463-67-7	30]
						Misc	-	10]
			Outer electrode	Copper alloys	6.2802	Copper	7440-50-8	100]
				Glass	0.6978	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.267	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	8.527	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.73	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	Damie Baatig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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	GRM32DR72J333KW01L	95	Ceramic element	Ceramics	78.498	Barium oxide, obtair	1304-28-5	60			C
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	6.2802	Copper	7440-50-8	100			
				Glass	0.6978	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.267	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	8.527	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.73	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	int, NG ; RoHS Not	Compliant

Signature :	Damie Baatig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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	GRM32ER60J476ME20K	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	7.0569	Copper	7440-50-8	100			
				Glass	0.7841	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.296	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	8.034	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.808	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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	GRM32ER60J476ME20L	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	_	10			
			Outer electrode	Copper alloys	7.0569	Copper	7440-50-8	100			
				Glass	0.7841	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.296	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	8.034	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.808	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Murata Americas

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	GRM32ER71H475KA88K	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	7.0569	Copper	7440-50-8	100			
				Glass	0.7841	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.296	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	8.034	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.808	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	Domie Boatig/hA
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM32NR71H224KA01L	57	Ceramic element	Ceramics	44.591	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	4.0203	Copper	7440-50-8	100			
				Glass	0.4467	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.176	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	7.285	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.481	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

		20
Signature :	DamieBoatigWA	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM43DR72E474KW01L	150	Ceramic element	Ceramics	125.383	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	7.0803	Copper	7440-50-8	100			
				Glass	0.7867	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.302	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	15.621	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.827	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM43RR71H334KA01L	110	Ceramic element	Ceramics	90.679	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	5.2866	Copper	7440-50-8	100			
				Glass	0.5874	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.228	Nickel	7440-02-0	100]
			Inner electrode	Nickel and Nickel alloys	12.596	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.623	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBoatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM55DR72E105KW01L	290	Ceramic element	Ceramics	254.05	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	12.3795	Copper	7440-50-8	100			
				Glass	1.3755	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.545	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	20.161	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	1.489	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

Signature :	DomieBcatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	#A921CY-101M=P3	358.1	Adhesive 1	EP (Epoxy resin)	0.4	Epoxy resin	58421-55-9
						Diuron; 3–(3,4–dichl	330-54-1
						Zinc oxide; C.I. 7794	1314-13-2
						Calcium carbonate	471-34-1
						Misc., not to declare	а —
			Adhesive 2	EP (Epoxy resin)	1.5		9003-36-5
						Calcium carbonate	471-34-1
						Titanium dioxide	13463-67-7
						C.I. Pigment Blue 28	1345-16-0
						Misc., not to declare	
			Drum core	Ceramics	110.5	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	
						Nickel oxide	1313-99-1
						Copper oxide; Copp	
			Ring core	Ceramics	160.2	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	
						Nickel oxide	1313-99-1
						Copper oxide; Copp	
			Marking 1	Painted resin	0.1	Malelic acid homopo	
						Carbon black	1333-86-4
							9004-70-0
			Marking 2	Painted resin	0.1		65997-05-9
						Misc., not to declare	
			Solder 1	Lead-free solder	2.5	Tin	7440-31-5
							8050-09-7
						Silver (Ag)	7440-22-4
							7440-50-8
							52434-90-9
						Misc., not to declare	
			Solder 2	Lead-free solder	0.2	Tin	7440-31-5
						Copper	7440-50-8
				_		Nickel	7440-02-0
							7440-56-4
						Misc., not to declare	
			Terminal	Copper alloys	10.5	Copper	7440-50-8
							7440-31-5
		ļ				Phosphorus	7723-14-0
			Terminal plating 1	Nickel plating	0.09	Nickel	7440-02-0
			Terminal plating 2	Tin plating	0.81	Tin	7440-31-5
						Copper	7440-50-8
			Wire	Copper (e.g. copper amount		Copper	7440-50-8
			Wire coating	PUR (Polyurethane)	3	Polyurethane resin	9009-54-5

DomieBoatight Donnie Boatrigh Corp. QA Manag

Name: Title: Company: Murata America Date(mm/dd/yy)

Signature :

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
88.1			С
3.8			
3.8			
3.3			
1			
64.65			
30.65			
3			
0.7			
1			
67			
20			
9			
4			
67			
20			
9			
4			
72			
21			
7			
90			
10			
81.8			
13.4			
3.5			
1			
0.05			
0.25			
95.28			
4.4			
0.07			
0.01			
0.24			
93.4			
6.5			
0.1			
100			
98.6			
1.4			
100			
100			
 * EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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The following products are certified to be in compliance with the RoHS (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 08 Ju

Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	#FSLB2520-4R7M=P2	20	Adhesive	EP (Epoxy resin)	0.01	Epoxy resin	25068-38-6
						Calcium carbonate	471-34-1
						Carbon black	1333-86-4
			Drum core	Ceramics	4.06	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	
						Nickel oxide	1313-99-1
						Copper oxide; Copp	
						Bismuth oxide	1304-76-3
						Misc., not to declare	
			Mold resin	EP (Epoxy resin)	9.38	Epoxy resin	29690-82-2
						Silicon dioxide	7631-86-9
						Phenolic resin	9003-35-4
						Diantimony trioxide;	
						TBBA-epichlorhydri	40039-93-8
						Carbon black	1333-86-4
			Terminal	Copper (e.g. copper amount	2.81	Copper	7440-50-8
			Terminal plating 1	Nickel plating	0.06	Nickel	7440-02-0
			Terminal plating 2	Tin plating	0.56	Tin	7440-31-5
						Copper	7440-50-8
			Wire	Copper (e.g. copper amount	2.88	Copper	7440-50-8
			Wire coating	PUR (Polyurethane)	0.24	Polyurethane resin	9009-54-5

 Signature :
 Damie Boatright

 Name:
 Donnie Boatright

 Title:
 Corp. QA Manager

 Company:
 Murata Americas

 Date (mm/dd/yy)
 4/3/18

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
79			С
20			
1			
61			
22			
9			
6			
1			
1			
17			
69.5			
8			
3			
2			
0.5			
100			
100			
98.6			
1.4			
100			
100			
* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant



The following products are certified to be in compliance with the RoHS (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 08 Ju

Customer Part No.	Murata Part No.	Weight (mg)		Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	1225AS-H-1R5N=P2	41	Adhesive 1	EP (Epoxy resin)	0.2	Epoxy resin	9003-36-5
							471-34-1
						Titanium dioxide	13463-67-7
						Cu-Phthalocyanin	147-14-8
						Misc., not to declare	
			Adhesive 2	EP (Epoxy resin)	0.3	Epoxy resin	25068-38-6
						Calcium carbonate	471-34-1
						Titanium dioxide	13463-67-7
						Cu-Phthalocyanin	147-14-8
			E core	Ceramics	29.6	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc., not to declare	e –
			Marking	Painted resin	0.1	Phenolic resin	9003-35-4
						Carbon black	1333-86-4
			Terminal	Copper alloys	3.2	Copper	7440-50-8
						Tin	7440-31-5
						Phosphorus	7723-14-0
			Terminal plating 1	Nickel plating	0.04	Nickel	7440-02-0
			Terminal plating 2	Tin plating	0.36	Tin	7440-31-5
						Copper	7440-50-8
			Wire	Copper (e.g. copper amounts	6.89	Copper	7440-50-8
			Wire coating 1	UP (Unsaturated polyester)		Polyester resin	68604-67-1
			Wire coating 2		0.13		68139-81-1
						Phenolic resin	9003-35-4

Signature :	DomieBoatigNA
Name:	Donnie Boatrigh
Title:	Corp. QA Manag
Company:	Murata America
Date (mm/dd/yy)	

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
62			С
30.5			
1.5			
1			
5			
57.5			
38.5			
2.5			
1.5			
65.3			
17.9			
14.2			
2.5			
0.1			
70			
30			
93.4			
6.5			
0.1			
100			
98.6			
1.4			
100			
100			
76			
24			
* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	1225AS-H-2R2M=P2	41	Adhesive 1	EP (Epoxy resin)	0.2	Epoxy resin	9003-36-5
						Calcium carbonate	471-34-1
						Titanium dioxide	13463-67-7
						Cu–Phthalocyanin	147-14-8
						Misc., not to declare	e –
			Adhesive 2	EP (Epoxy resin)	0.3	Epoxy resin	25068-38-6
						Calcium carbonate	471-34-1
						Titanium dioxide	13463-67-7
						Cu–Phthalocyanin	147-14-8
			E core	Ceramics	29.6	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc., not to declare	e –
			Marking	Painted resin	0.1	Phenolic resin	9003-35-4
						Carbon black	1333-86-4
			Terminal	Copper alloys	3.2	Copper	7440-50-8
						Tin	7440-31-5
						Phosphorus	7723-14-0
			Terminal plating 1	Nickel plating	0.04	Nickel	7440-02-0
			Terminal plating 2	Tin plating	0.36	Tin	7440-31-5
						Copper	7440-50-8
			Wire	Copper (e.g. copper amounts	6.89	Copper	7440-50-8
			Wire coating 1	UP (Unsaturated polyester)		Polyester resin	68604-67-1
			Wire coating 2		0.13		68139-81-1
						Phenolic resin	9003-35-4

DomieBoatigNA
Donnie Boatrigh
Corp. QA Manag
Murata America

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
62			С
30.5			
1.5			
1			
5			
57.5			
38.5			
2.5			
1.5			
65.3			
17.9			
14.2			
2.5			
0.1			
70			
30			
93.4			
6.5			
0.1			
100			
98.6			
1.4			
100			
100			
76			
24			
* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	1225AS-H-4R7M=P2	41	Adhesive 1	EP (Epoxy resin)	0.2	Epoxy resin	9003-36-5
							471-34-1
						Titanium dioxide	13463-67-7
						Cu-Phthalocyanin	147-14-8
						Misc., not to declare	e –
			Adhesive 2	EP (Epoxy resin)	0.3	Epoxy resin	25068-38-6
						Calcium carbonate	471-34-1
						Titanium dioxide	13463-67-7
						Cu–Phthalocyanin	147-14-8
			E core	Ceramics	29.6	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc., not to declare	e –
			Marking	Painted resin	0.1	Phenolic resin	9003-35-4
						Carbon black	1333-86-4
			Terminal	Copper alloys	3.2	Copper	7440-50-8
						Tin	7440-31-5
						Phosphorus	7723-14-0
			Terminal plating 1	Nickel plating	0.04	Nickel	7440-02-0
			Terminal plating 2	Tin plating	0.36	Tin	7440-31-5
						Copper	7440-50-8
			Wire	Copper (e.g. copper amount	6.89	Copper	7440-50-8
			Wire coating 1	UP (Unsaturated polyester)		Polyester resin	68604-67-1
			Wire coating 2		0.13		68139-81-1
						Phenolic resin	9003-35-4

Olghacal C .	DomieBoatigNA
Name:	Donnie Boatrigh
Title:	Corp. QA Manag
Company:	Murata America
Date (mm/dd/yy)	

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
62			С
30.5			
1.5			
1			
5			
57.5			
38.5			
2.5			
1.5			
65.3			
17.9			
14.2			
2.5			
0.1			
70			
30			
93.4			
6.5			
0.1			
100			
98.6			
1.4			
100			
 100			
76			
 24			
 * EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	BLA31BD601SN4D	18.3	Outer electrode	Other special metals	0.4014	Silver (Ag)	7440-22-4
				Glass	0.0446	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Ceramic element	Ceramics	16.287	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	-
						Bismuth oxide	1304-76-3
						Silica	7631-86-9
						Tin dioxide	18282-10-5
			Inner electrode	Other special metals	1.49	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0299	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0471	Tin	7440-31-5

	/ 110 02 0	100
Tin	7440-31-5	100
		* EU
Signature :	DomieBoatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		

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	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	100			С
	10			
	90			
	56			
	16			
	17			
	7			
	1			
	1			
	1			
	1			
	100			
	100			
	100			
	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	BLM15AG221SN1J	1.21	Outer electrode	Other special metals	0.0738	Silver (Ag)	7440-22-4
				Glass	0.0082	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.24	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.023	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0227	Tin	7440-31-5
			Ceramic element	Ceramics	0.8423	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Manganese oxide	1317-35-7
						Bismuth oxide	1304-76-3

DomieBoatight Signature : Donnie Boatright Corp. QA Manager Murata Americas Name: Title: Company: Date (mm/dd/yy)

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
100			С
10			
90			
100			
100			
100			
59			
19			
10			
10			
1			
1			
* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	BLM15AX102SN1D	1.16	Outer electrode	Other special metals	0.2367	Silver (Ag)	7440-22-4
				Glass	0.0263	diboron trioxide; boi	1303-86-2
						Silicon dioxide	7631-86-9
			Ceramic element	Ceramics	0.5994	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Tin dioxide	18282-10-5
						Misc	-
						Manganse oxide	1317-35-7
			Inner electrode	Other special metals	0.225	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0398	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0328	Tin	7440-31-5

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

Date

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	substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	100			С
	10			
	90			
	59			
	19			
	10			
	9			
	1			
	1			
	1			
	100			
	100			
	100			
nt	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	ent Part Material Name		Substance Name	CAS No.
	BLM15HB121SN1D	1.21	Outer electrode	Other special metals	0.0738	Silver (Ag)	7440-22-4
				Glass	0.0082	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.201	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.023	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0227	Tin	7440-31-5
			Ceramic element	Ceramics	0.8813	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Cobalt oxide (Co3O	1308-06-1
						Manganese oxide	1317-35-7
						Bismuth oxide	1304-76-3
						Misc	-

Domie Boatight Signature : Donnie Boatright Corp. QA Manager Murata Americas Name: Title: Company: Date (mm/dd/yy)

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	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	100			С
	10			
	90			
	100			
	100			
	100			
	49			
	9			
	29			
	9			
	1			
	1			
	1			
	1			
	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	BLM15PD121SN1D	1.21	Ceramic element	Ceramics	0.8179	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Cobalt oxide (Co3O	1308-06-1
						Manganese oxide	1317-35-7
						Bismuth oxide	1304-76-3
						Misc	-
			Outer electrode	Other special metals	0.135	Silver (Ag)	7440-22-4
				Glass	0.015	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode			Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0207	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0204	Tin	7440-31-5

NICKEI	7440 02 0	100
Tin	7440-31-5	100
		* EU
Signature :	DomieBoatight	
Name:	Donnie Boatright	
Title:	Corp. QA Manager	
Company:	Murata Americas	
Date (mm/dd/yy)		

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	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	53			С
	16			
	17			
	10			
	1			
	1			
	1			
	1			
	100			
	10			
	90			
	100			
	100			
	100			
	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
1	BLM18AG102SN1J	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			С
				Glass	0.0265	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	3.9669	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	0.29	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0484	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0597	Tin	7440-31-5	100			

DomieBoatight Signature : Donnie Boatrigh Corp. QA Manag Murata America Name: Title: Company: Date (mm/dd/yy)

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	BLM18BB221SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4
				Glass	0.0265	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Ceramic element	Ceramics	3.9059	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Cobalt oxide	1307-96-6
						Bismuth oxide	1304-76-3
			Inner electrode	Other special metals	0.351	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0484	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0597	Tin	7440-31-5

Domie Boatig/W Signature : Donnie Boatrig Corp. QA Mana Murata Americ Name: Title: Company: Date (mm/dd/yy)

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
100			С
10			
90			
59			
1			
29			
9			
1			
1			
100			
100			
100			
* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	BLM18EG221SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			С
				Glass	0.0265	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	3.6219	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	0.635	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0484	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.0597	Tin	7440-31-5	100			
			Nickel Plating Layer	Nickel plating				100	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliar

DomieBoatight Signature : Donnie Boatrigh Corp. QA Manag Murata America Name: Company: Date (mm/dd/yy)

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	BLM18HB221SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4
				Glass	0.0265	diboron trioxide; bor	1303-86-2
							7631-86-9
			Inner electrode	Other special metals	0.39	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0484	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0597	Tin	7440-31-5
			Ceramic element	Ceramics	3.8669	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Cobalt oxide (Co3O	1308-06-1
						Manganese oxide	1317-35-7
						Bismuth oxide	1304-76-3
						Misc	-

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	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	100			С
	10			
	90			
	100			
	100			
	100			
	49			
	9			
	29			
	9			
	1			
	1			
	1			
	1			
	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
1	BLM18HK471SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			С
				Glass	0.0265	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	3.8029	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Misc	_	1			
			Inner electrode	Other special metals	0.454	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0484	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0597	Tin	7440-31-5	100	> C ; RoHS Complia		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
F	BLM18HK601SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			С
				Glass	0.0265	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	3.8029	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Misc	_	1			
			Inner electrode	Other special metals	0.454	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0484	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0597	Tin	7440-31-5	100			

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BLM18KG221SN1D	4.63			in Component		CAS No.	substance in Material	Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	4.03	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			С
			Glass	0.0265	diboron trioxide; bor	1303-86-2	10			
					Silicon dioxide	7631-86-9	90			
		Ceramic element	Ceramics	2.2369	Iron(III) oxide	1309-37-1	59			
					Zinc oxide; C.I. 7794	1314-13-2	20			
					Nickel oxide	1313-99-1	10			
					Copper oxide; Copp	1317-38-0	10			
					Bismuth oxide	1304-76-3	1			
		Inner electrode	Other special metals	2.02	Silver (Ag)	7440-22-4	100			
		Nickel Plating Layer	Nickel plating	0.0484	Nickel	7440-02-0	100			
		Tin Plating Layer	Tin plating	0.0597	Tin	7440-31-5	100	-> C ; RoHS_Complia		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	BLM18KG471SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			С
				Glass	0.0265	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	2.2369	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	2.02	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0484	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0597	Tin	7440-31-5	100 * EU-RoHS(C/NG) ·			7

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	BLM18PG471SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			С
				Glass	0.0265	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	3.9669	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	0.29	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0484	Nickel	7440-02-0	100]
			Tin Plating Layer	Tin plating	0.0597	Tin	7440-31-5	100			
		•			•	•			-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	BLM21BD272SN1L	14.3	Outer electrode	Other special metals	0.99	Silver (Ag)	7440-22-4
				Glass	0.11	diboron trioxide; bor	1303-86-2
							7631-86-9
			Ceramic element	Ceramics	12.753	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	-
						Bismuth oxide	1304-76-3
						Silica	7631-86-9
						Tin dioxide	18282-10-5
			Inner electrode	Other special metals	0.176	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.121	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.15	Tin	7440-31-5

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Name:	Donnie Boatrigh
Title:	Corp. QA Manag
Company:	Murata America
Date (mm/dd/yy)	

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S No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
-4	100			С
-2	10			
-4 -2 -9 -1 -2 -1 -1 -0	90			
-1	56			
-2	16			
-1	17			
-0	7			
	1			
-3	1			
-9	1			
-3 -9)–5	1			
-4	100			
-4 -0 -5	100			
-5	100			
	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
1	BLM21PG220SH1D	9.8	Outer electrode	Other special metals	0.7146	Silver (Ag)	7440-22-4	100			С
				Glass	0.0794	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	8.6221	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	0.176	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0929	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.115	Tin	7440-31-5	100	> C ; RoHS Complia		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	BLM21PG600SN1D	9.8	Outer electrode	Other special metals	0.7146	Silver (Ag)	7440-22-4	100			С
				Glass	0.0794	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	8.6221	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	0.176	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0929	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.115	Tin	7440-31-5	100 * EU-RoHS(C/NG) ·			

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
I	BLM31PG121SH1L	25.2	Outer electrode	Other special metals	1.917	Silver (Ag)	7440-22-4	100			С
				Glass	0.213	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	20.602	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	2.1	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.165	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.203	Tin	7440-31-5	100	> C ; RoHS Complia		7

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
F	BLM31PG121SN1L	25.2	Outer electrode	Other special metals	1.917	Silver (Ag)	7440-22-4	100			С
				Glass	0.213	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	20.602	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	2.1	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.165	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.203	Tin	7440-31-5	100	> C ; RoHS Complia		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
F	BLM41PG102SN1L	50.5	Outer electrode	Other special metals	3.159	Silver (Ag)	7440-22-4	100			С
				Glass	0.351	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	44.004	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	2.51	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.213	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.263	Tin	7440-31-5	100 * EU-RoHS(C/NG) -]

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
BLM	M41PG181SN1L	50.5	Outer electrode	Other special metals	3.159	Silver (Ag)	7440-22-4	100			С
				Glass	0.351	diboron trioxide; bor	1303-86-2	10			1
						Silicon dioxide	7631-86-9	90]
			Ceramic element	Ceramics	44.004	Iron(III) oxide	1309-37-1	59]
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	2.51	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.213	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.263	Tin	7440-31-5	100	-> C ; RoHS Complia		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
F	BLM41PG600SN1K	50.5	Outer electrode	Other special metals	3.159	Silver (Ag)	7440-22-4	100			С
				Glass	0.351	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	44.004	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	2.51	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.213	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.263	Tin	7440-31-5	100	> C ; RoHS Complia		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	CES40906MDCB000RAB	108.633	Сар	unalloyed, low alloyed steel	24.6	Iron	7439-89-6
						Manganese	7439-96-5
				Silver plating	1.63	Silver (Ag)	7440-22-4
				Copper plating	1.02	Copper	7440-50-8
				Others (Cured resin or duro	0.1	Carbon black	7440-44-0
			Magnet	Ceramics	21.7	Iron	7439-89-6
						Strontium	1633-05-2
						Misc.	-
			Ferrite element	Other thermoplastics	6.5	Iron	7439-89-6
						Yttrium	7440-65-5
						Calcium	7440-70-2
						Vanadium	7440-62-2
						Misc.	-
				Other special metals	0.46	Silver (Ag)	7440-22-4
				Glass	0.44	Glass	7631-86-9
			I/O terminal	unalloyed, low alloyed steel	31.56	Iron	7439-89-6
						Manganese	7439-96-5
				Other thermoplastics	1.82	Liquid crystal polym	70679-92-4
				Copper plating	0.6	Copper	7440-50-8
				Silver plating	1.61	Silver (Ag)	7440-22-4
			Ceramic substrate	Ceramics	5.295	Alumina	1344-28-1
				Other special metals	3.09	Silver (Ag)	7440-22-4
				Glass	0.008	Lead(II) oxide; Lead	
						Glass	7631-86-9
						Ruthenium dioxide	12036-10-1
				Nickel plating	0.78	Nickel	7440-02-0
				Gold plating	0.02	Gold	7440-57-5
			Spacer	Other thermoplastics	0.6	Glass	65997-18-4
						Ероху	25928-94-3
						Brominated flame r	
			Guide	Other thermoplastics	2.9	Liquid crystal polym	70679-92-4
			Solder	Lead-free solder	3.9	Copper	7440-50-8
						Tin	7440-31-5
						Silver (Ag)	7440-22-4

Signature :	DomieBoatigNA
Name:	Donnie Boatright
Title:	Corp. QA Manage
Company:	Murata Americas
Date (mm/dd/yy)	

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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The following products are certified to be in compliance with the RoHS (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 08 June 2011).

Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	CSTCE8M00G55Z-R0	11.03	Metal Cap	highly alloyed steel	3.52	Nickel	7440-02-0
						Iron	7439-89-6
						Misc	-
			Resonant Ceramic Elements	Ceramics	0.79	Lead titanium zirco	12626-81-2
			Inner Electrode	Other special metals	0.01	Nickel	7440-02-0
						Chromium	7440-47-3
						Copper	7440-50-8
						Silver (Ag)	7440-22-4
			Conductive Adhesive	EP (Epoxy resin)	0.03	Nickel	7440-02-0
						Silver (Ag)	7440-22-4
						Epoxy Resin	-
			Insulating Material	EP (Epoxy resin)	0.04	Epoxy Resin	-
			Adhesive	EP (Epoxy resin)	0.04	Epoxy Resin	-
			Substrate	Ceramics	6	Magnesium Titaniun	12032-30-3
			Layer Electrode	Other special metals	0.07	Palladium	7440-05-3
			Outer Electrode	Other special metals	0.2915	Silver (Ag)	7440-22-4
			Outer Electrode Plating (Nick	Nickel plating	0.212	Nickel	7440-02-0
			Outer Electrode Plating (Gold	Gold plating	0.0265	Gold	7440-57-5

Signature : Name : Title : Company : Date :	Donnie Boatright Corp QA Manage Murata Americas 2018/04/03
Date :	2018/04/03

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	CSTCR4M00G53-R0	29.28	Metal Cap	highly alloyed steel	7.9	Nickel	7440-02-0
						Iron	7439-89-6
						Misc	-
			Resonant Ceramic Elements	Ceramics	4.11	Lead titanium zircor	12626-81-2
			Inner Electrode1	Other special metals	0.02	Nickel	7440-02-0
						Chromium	7440-47-3
						Copper	7440-50-8
						Silver (Ag)	7440-22-4
			Ceramic Elememts	Ceramics	1.87	Barium Titanium Ox	12047-27-7
			Inner Electrode2	Other special metals	0.02	Nickel	7440-02-0
						Chromium	7440-47-3
						Copper	7440-50-8
						Silver (Ag)	7440-22-4
			Conductive Adhesive	Other special metals	0.2	Silver (Ag)	7440-22-4
						Nickel	7440-02-0
						Epoxy Resin	-
			Insulating Material	EP (Epoxy resin)	0.2	Epoxy Resin	-
			Adhesive	EP (Epoxy resin)	0.15	Epoxy Resin	-
			Substrate	Ceramics	14.18	Aluminum Oxide (Al	1344-28-1
				Other special metals	0.3465	Silver (Ag)	7440-22-4
			Outer Electrode Plating (Nick	Nickel plating	0.252	Nickel	7440-02-0
			Outer Electrode Plating (Gold	Gold plating	0.0315	Gold	7440-57-5

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	CSTCR4M00G55-R0	29.28	Metal Cap	highly alloyed steel	7.9	Nickel	7440-02-0
						Iron	7439-89-6
						Misc	_
			Resonant Ceramic Elements	Ceramics	4.11	Lead titanium zirco	12626-81-2
			Inner Electrode1	Other special metals	0.02	Nickel	7440-02-0
						Chromium	7440-47-3
						Copper	7440-50-8
						Silver (Ag)	7440-22-4
			Ceramic Elememts	Ceramics	1.87	Barium Titanium Ox	12047-27-7
			Inner Electrode2	Other special metals	0.02	Nickel	7440-02-0
						Chromium	7440-47-3
						Copper	7440-50-8
						Silver (Ag)	7440-22-4
			Conductive Adhesive	Other special metals	0.2	Silver (Ag)	7440-22-4
						Nickel	7440-02-0
						Epoxy Resin	-
			Insulating Material	EP (Epoxy resin)	0.2	Epoxy Resin	-
			Adhesive	EP (Epoxy resin)	0.15	Epoxy Resin	-
			Substrate	Ceramics	14.18	Aluminum Oxide (Al	1344-28-1
				Other special metals	0.3465	Silver (Ag)	7440-22-4
			Outer Electrode Plating (Nick	Nickel plating	0.252	Nickel	7440-02-0
			Outer Electrode Plating (Gold	Gold plating	0.0315	Gold	7440-57-5

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	DLW21SN371SQ2L	11.4	Magnet Wire	Copper (e.g. copper amounts	0.441	Copper	7440-50-8
			Magnet Wire Coating	Other thermoplastics	0.009	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.036	Silver (Ag)	7440-22-4
				Glass	0.004	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.06	Nickel	7440-02-0
			Ceramic element	Ceramics	10.69	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	_
			Tin Plating Layer	Tin plating	0.08	Tin	7440-31-5
			Epoxy Adhesive	EP (Epoxy resin)	0.08	Epoxy resin	25068-38-6
						Misc	-

DomieBoatight Signature : Donnie Boatright Corp. QA Manager Murata Americas Name: Title: Company: Date (mm/dd/yy)

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	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	DLW5BSM102SQ2L	298	Outer Electrode 1	Nickel and Nickel alloys	0.086	Nickel	7440-02-0
						Misc	_
			Outer Electrode 2	Nickel and Nickel alloys	0.086	Nickel	7440-02-0
						Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amounts	10.6036	Copper	7440-50-8
			Magnet Wire Coating	PUR (Polyurethane)	0.2164	Polyuretane resin	68400-67-9
			Ceramic element	Ceramics	274.888	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	-
			Solder	Lead-free solder	1.52	Tin	7440-31-5
						Copper	7440-50-8
			Epoxy Adhesive	EP (Epoxy resin)		Epoxy resin	25068-38-6
						Talc	14807-96-6
						Silicon dioxide	7631-86-9
						Misc	-

Signature :	DomieBoatight
Name:	Donnie Boatrigh
Title:	Corp. QA Manag
Company:	Murata America
Date (mm/dd/yy)	

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G0N068(Y10)

Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	DLW5BSM152SQ2L	298	Outer Electrode 1	Nickel and Nickel alloys	0.086	Nickel	7440-02-0
						Misc	-
			Outer Electrode 2	Nickel and Nickel alloys	0.086	Nickel	7440-02-0
						Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount	10.6036	Copper	7440-50-8
			Magnet Wire Coating	PUR (Polyurethane)	0.2164	Polyuretane resin	68400-67-9
			Ceramic element	Ceramics	274.888	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	-
			Solder	Lead-free solder	1.52	Tin	7440-31-5
						Copper	7440-50-8
			Epoxy Adhesive	EP (Epoxy resin)	10.6		25068-38-6
						Talc	14807-96-6
						Silicon dioxide	7631-86-9
						Misc	-

Signature :	DomieBoatight
Name:	Donnie Boatrigh
Title:	Corp. QA Manag
Company:	Murata America
Date (mm/dd/yy)	

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	DLW5BSM191SQ2L	298	Outer Electrode 1	Nickel and Nickel alloys	0.086	Nickel	7440-02-0
						Misc	-
			Outer Electrode 2	Nickel and Nickel alloys	0.086	Nickel	7440-02-0
						Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount	10.6036	Copper	7440-50-8
			Magnet Wire Coating	PUR (Polyurethane)	0.2164	Polyuretane resin	68400-67-9
			Ceramic element	Ceramics	274.888	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	-
			Solder	Lead-free solder	1.52	Tin	7440-31-5
						Copper	7440-50-8
			Epoxy Adhesive	EP (Epoxy resin)	10.6	Epoxy resin	25068-38-6
						Talc	14807-96-6
						Silicon dioxide	7631-86-9
						Misc	-

Signature :	DomieBoatight
Name:	Donnie Boatrigh
Title:	Corp. QA Manag
Company:	Murata America
Date (mm/dd/yy)	

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	DLW5BSM302SQ2L	298	Outer Electrode 1	Nickel and Nickel alloys	0.086	Nickel	7440-02-0
						Misc	_
			Outer Electrode 2	Nickel and Nickel alloys	0.086	Nickel	7440-02-0
						Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amounts	10.6036	Copper	7440-50-8
			Magnet Wire Coating	PUR (Polyurethane)	0.2164	Polyuretane resin	68400-67-9
			Ceramic element	Ceramics	274.888	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	_
			Solder	Lead-free solder	1.52	Tin	7440-31-5
						Copper	7440-50-8
			Epoxy Adhesive	EP (Epoxy resin)	10.6	Epoxy resin	25068-38-6
						Talc	14807-96-6
						Silicon dioxide	7631-86-9
						Misc	-

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Corp. QA Manag
Murata America

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	ECASD40J107M015K00	132.51	Terminal	Copper alloys	29.09	Copper	7440-50-8
						Nickel	7440-02-0
						Tin	7440-31-5
			Anode+Dielectric Layer	Wrought aluminium alloys	14.6	Aluminum foil	7429-90-5
						Aluminum oxide	1344-28-1
			Cathode(Silver Layer)	Other special metals	11.88	Silver (Ag)	7440-22-4
						Fluoropolymer Resi	27029-05-6
						Acrylic resin	9003-01-4
			Cathode(Carbon Layer)	Other inorganic metals	1.52	Carbon Black	1333-86-4
						Acrylic resin	9003-01-4
			Cathode(Conductive Polymer	Other thermoplastics	5.12	Polyimide resin	25036-53-7
						Silica	68611-44-9
						Poly(3,4-Ethylenedi	155090-83-8
			Molded Resin	EP (Epoxy resin)	70.3	Epoxy resin	25068-38-6
						Phenolic resin	9003-35-4
						Fused silica	60676-86-0
						Carbon Black	1333-86-4
						Metal hydroxide	21645-51-2

Signature :	Domie Boatig/WA
Name:	Donnie Boatright
Title:	Corp. QA Manag
Company:	Murata Americas
Date (mm/dd/yy)	

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
95			С
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	LFL21915MTC1A027	10	Ceramic element	Ceramics	8.2852	Barium oxide, obtaiı	1304-28-5	18			С
						Strontium oxide	1314-11-0	18			
						Titanium dioxide	13463-67-7	9			
						Silica	7631-86-9	18			
						Zirconium oxide	1314-23-4	28			
						Aluminium oxide	1344-28-1	9			
			Copper Electrode	Copper alloys	1.6719	Copper	7440-50-8	100			
			Nickel Plating Layer	Nickel plating	0.0124	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0305	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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		* EU-RoHS(C/NG) ·	> C ; RoHS(Complian	t, NG ; RoHS Not (Compliant
Signature :	Domie Boatig/WA					
Name:	Donnie Boatright					
Title:	Corp. QA Manager					
Company:	Murata Americas					
Date (mm/dd/yy)		4/3/18				

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQG15HS1N0S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Marking	Glass	0.009	Silica	7631-86-9
						diboron trioxide; bor	1303-86-2
						Copper chromite bla	68186-91-4
				Ceramics	0.001	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-

Signature :	Domie Boatig/W
Name:	Donnie Boatrig
Title:	Corp. QA Man
Company:	Murata Americ
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G0N068(Y10)

Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQG15HS1N1S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Marking	Glass	0.009	Silica	7631-86-9
						diboron trioxide; bor	1303-86-2
						Copper chromite bla	68186-91-4
				Ceramics	0.001	Barium oxide, obtair	
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQG15HS27NJ02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Marking	Glass	0.009	Silica	7631-86-9
						diboron trioxide; bor	1303-86-2
						Copper chromite bla	68186-91-4
				Ceramics	0.001	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQG15HS2N0S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Marking	Glass	0.009	Silica	7631-86-9
						diboron trioxide; bor	1303-86-2
						Copper chromite bla	68186-91-4
				Ceramics	0.001	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-

Signature :	DomieBoatight
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQG15HS2N2C02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Marking	Glass	0.009	Silica	7631-86-9
						diboron trioxide; bor	1303-86-2
						Copper chromite bla	68186-91-4
				Ceramics	0.001	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQG15HS3N3S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Marking	Glass	0.009	Silica	7631-86-9
						diboron trioxide; bor	1303-86-2
						Copper chromite bla	68186-91-4
				Ceramics	0.001	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQG15HS5N1S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Marking	Glass	0.009	Silica	7631-86-9
						diboron trioxide; bor	1303-86-2
						Copper chromite bla	68186-91-4
				Ceramics	0.001	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQG15HS9N1J02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Marking	Glass	0.009	Silica	7631-86-9
						diboron trioxide; bor	1303-86-2
						Copper chromite bla	68186-91-4
				Ceramics	0.001	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-

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30			С
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQG15HSR10J02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5
			Marking	Glass	0.009	Silica	7631-86-9
						diboron trioxide; bor	1303-86-2
						Copper chromite bla	68186-91-4
				Ceramics	0.001	Barium oxide, obtair	1304-28-5
						Silica	7631-86-9
						Aluminium oxide	1344-28-1
						diboron trioxide; bor	1303-86-2
						Misc	-

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30			С
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* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQH31CN1R0M03L	29.3	Outer Electrode 1	Nickel and Nickel alloys	0.028	Nickel	7440-02-0
						Misc	—
			Outer Electrode 2	Nickel and Nickel alloys	0.028	Nickel	7440-02-0
						Copper	7440-50-8
			Ceramic element	Ceramics	24.403	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	—
			Magnet Wire	Copper (e.g. copper amount	3.6456	Copper	7440-50-8
			Magnet Wire Coating	PUR (Polyurethane)	0.0744	Polyuretane resin	68400-67-9
			Solder	Lead-free solder	0.511	Tin	7440-31-5
						Copper	7440-50-8
			Coating Resin	EP (Epoxy resin)		Epoxy resin	25068-38-6
							60676-86-0
						Misc	-

Signature :	Domie Boatig/WA
Name:	Donnie Boatright
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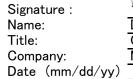
Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
93			С
7			
70			
30			
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* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQH32CN470K23L	59.6	Outer Electrode 1	Nickel and Nickel alloys	0.0444	Nickel	7440-02-0
						Misc	—
			Outer Electrode 2	Nickel and Nickel alloys	0.0444	Nickel	7440-02-0
						Copper	7440-50-8
			Ceramic element	Ceramics	44.9812	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	—
			Magnet Wire	Copper (e.g. copper amount	10.7016	Copper	7440-50-8
			Magnet Wire Coating		0.2184	Polyuretane resin	68400-67-9
			Solder	Lead-free solder	0.96	Tin	7440-31-5
						Copper	7440-50-8
			Coating Resin	EP (Epoxy resin)			25068-38-6
							60676-86-0
						Misc	-



Name: Title: Company:

DomieBoatight Donnie Boatright Corp. QA Manag Murata Americas

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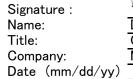
Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
93			С
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 * EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQH32CN4R7M33K	59.6	Outer Electrode 1	Nickel and Nickel alloys	0.0444	Nickel	7440-02-0
						Misc	—
			Outer Electrode 2	Nickel and Nickel alloys	0.0444	Nickel	7440-02-0
						Copper	7440-50-8
			Ceramic element	Ceramics	44.9812	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	—
			Magnet Wire	Copper (e.g. copper amount	10.7016	Copper	7440-50-8
			Magnet Wire Coating	PUR (Polyurethane)	0.2184	Polyuretane resin	68400-67-9
			Solder	Lead-free solder	0.96	Tin	7440-31-5
						Copper	7440-50-8
			Coating Resin	EP (Epoxy resin)		Epoxy resin	25068-38-6
							60676-86-0
						Misc	-



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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
93			С
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The following products are certified to be in compliance with the RoHS (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 08 June 2011).

Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQH43CN101K03L	128	Outer Electrode 1	Nickel and Nickel alloys	0.071	Nickel	7440-02-0
						Misc	—
			Outer Electrode 2	Nickel and Nickel alloys	0.071	Nickel	7440-02-0
						Copper	7440-50-8
			Ceramic element	Ceramics	98.178	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	—
			Magnet Wire	Copper (e.g. copper amount	25.382	Copper	7440-50-8
			Magnet Wire Coating	PUR (Polyurethane)	0.518	Polyuretane resin	68400-67-9
			Solder	Lead-free solder	2.6	Tin	7440-31-5
						Copper	7440-50-8
			Coating Resin	EP (Epoxy resin)		Epoxy resin	25068-38-6
							60676-86-0
						Misc	-

Signature : Name: Title: Company: Date (mm/dd/yy)

Domie Boatight Donnie Boatright Corp. QA Manag Murata Americas

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
93			С
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* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQH43CN220K03L	128	Outer Electrode 1	Nickel and Nickel alloys	0.071	Nickel	7440-02-0
						Misc	—
			Outer Electrode 2	Nickel and Nickel alloys	0.071	Nickel	7440-02-0
						Copper	7440-50-8
			Ceramic element	Ceramics	98.178	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	—
			Magnet Wire	Copper (e.g. copper amount	25.382	Copper	7440-50-8
			Magnet Wire Coating	PUR (Polyurethane)	0.518	Polyuretane resin	68400-67-9
			Solder	Lead-free solder	2.6	Tin	7440-31-5
						Copper	7440-50-8
			Coating Resin	EP (Epoxy resin)		Epoxy resin	25068-38-6
							60676-86-0
						Misc	-

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* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQH43MN680K03L	128	Outer Electrode 1	Nickel and Nickel alloys	0.071	Nickel	7440-02-0
						Misc	—
			Outer Electrode 2	Nickel and Nickel alloys	0.071	Nickel	7440-02-0
						Copper	7440-50-8
			Ceramic element	Ceramics	98.178	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Misc	-
			Magnet Wire	Copper (e.g. copper amount	25.382	Copper	7440-50-8
						Polyuretane resin	68400-67-9
			Solder	Lead-free solder	2.6	Tin	7440-31-5
						Copper	7440-50-8
			Coating Resin	EP (Epoxy resin)	1.18	Epoxy resin	25068-38-6
							60676-86-0
						Misc	-

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 * EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQH55DN150M03L	477	Outer Electrode 1	Nickel and Nickel alloys	0.1735	Nickel	7440-02-0
						Misc	-
			Outer Electrode 2	Nickel and Nickel alloys	0.1735	Nickel	7440-02-0
						Copper	7440-50-8
			Ceramic element	Ceramics	353.653	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
			Magnet Wire	Copper (e.g. copper amounts	93.1	Copper	7440-50-8
				PUR (Polyurethane)			68400-67-9
			Solder	Lead-free solder	28	Tin	7440-31-5
						Copper	7440-50-8

Domie Boatig/ A Signature : Donnie Boatrigh Corp. QA Mana Murata America Name: Title: Company: Date (mm/dd/yy)

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
93			С
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* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TN12NH02D	0.175	Outer electrode	Other special metals		Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	-
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manage
Company:	Murata Americas
Date (mm/dd/yy)	

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G0N068(Y10)

	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	100			С
	10			
	90			
	100			
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	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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A Manager Americas



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TN15NH02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	_
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

Signature :	DomieBoatight
Name:	Donnie Boatrigh
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Company:	Murata America
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G0N068(Y10)

CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
-22-4	100			С
-86–2	10			
-86–9	90			
-22-4	100			
-02–0	100			
-31–5	100			
-86-2	15			
-86–9	70			
-96-6	5			
-28-1	5			
	5			
-86-2	10			
-86–9	50			
-28–1	40			
	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TN1N0B02D	0.175	Outer electrode	Other special metals		Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	_
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

Signature :	DomieBoatight
Name:	Donnie Boatright
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G0N068(Y10)

	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	100			С
	10			
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	100			
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	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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A Manager Americas



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TN1N8B02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	-
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

Signature :	DomieBoatight
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CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
-22-4	100			С
-86–2	10			
-86–9	90			
-22-4	100			
-02–0	100			
-31–5	100			
-86-2	15			
-86–9	70			
-96-6	5			
-28-1	5			
	5			
-86-2	10			
-86–9	50			
-28–1	40			
	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TN2N2B02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	-
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

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G0N068(Y10)

CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
-22-4	100			С
-86-2	10			
-86-9	90			
-22-4	100			
-02–0	100			
-31–5	100			
-86-2	15			
-86–9	70			
-96-6	5			
-28-1	5			
	5			
-86–2	10			
-86–9	50			
-28–1	40			
	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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e Boatright				
QA Manager				
a Americas				



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TN3N3B02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	-
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

Signature :	DomieBoatight
Name:	Donnie Boatright
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Company:	Murata Americas
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	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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A Manager Americas



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TN68NJ02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	-
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

Signature :	DomieBoatight
Name:	Donnie Boatright
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Company:	Murata Americas
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	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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A Manager Americas



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TN6N8H02D	0.175	Outer electrode	Other special metals		Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	-
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

Signature :	DomieBoatigNA
Name:	Donnie Boatright
Title:	Corp. QA Manage
Company:	Murata Americas
Date (mm/dd/yy)	

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G0N068(Y10)

	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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	10			
	90			
	100			
	100			
	100			
	15			
	70			
	5			
	5			
	5			
	10			
	50			
	40			
	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
nt				

A Manager Americas



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TN91NJ02D	0.175	Outer electrode	Other special metals		Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	_
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manage
Company:	Murata Americas
Date(mm/dd/yy)	

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G0N068(Y10)

	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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	* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant
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A Manager Americas



The following products are certified to be in compliance with the RoHS (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 08 June 2011).

Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TNR12J02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	_
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

DomieBoatight Signature : Donnie Boatright Corp. QA Manager Murata Americas Name: Title: Company: Date (mm/dd/yy)

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP03TNR15H02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4
				Glass	0.0027	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Cobalt oxide	1307-96-6
						Aluminum oxide	1344-28-1
						Misc	_
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2
						Silica	7631-86-9
						Aluminium Oxide	1344-28-1

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP15MN12NG02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Misc	_
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Copper	7440-50-8
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0
						Misc	—
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5
			Substrate	Glass	0.3303	Cristobalite	14464-46-1
						Aluminium Oxide	1344-28-1
						Misc	-

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP15MN3N3B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Misc	—
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Copper	7440-50-8
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0
						Misc	—
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5
			Substrate	Glass	0.3303	Cristobalite	14464-46-1
						Aluminium Oxide	1344-28-1
						Misc	-

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP15MN3N9B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Misc	-
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Copper	7440-50-8
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0
						Misc	-
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5
			Substrate	Glass	0.3303	Cristobalite	14464-46-1
						Aluminium Oxide	1344-28-1
						Misc	-

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Corp. QA Manager Murata Americas



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP15MN4N7B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Misc	_
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Copper	7440-50-8
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0
						Misc	-
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5
			Substrate	Glass	0.3303	Cristobalite	14464-46-1
						Aluminium Oxide	1344-28-1
						Misc	-

Domie Boatight Signature : Name: Donnie Boatrigh Corp. QA Manager Murata Americas Title: Company: Date (mm/dd/yy)

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP15MN5N1B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Misc	-
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Copper	7440-50-8
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0
						Misc	-
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5
			Substrate	Glass	0.3303	Cristobalite	14464-46-1
						Aluminium Oxide	1344-28-1
						Misc	_

Domie Boatig WA Signature : Name: Donnie Boatrigh Corp. QA Manager Murata Americas Title: Company: Date (mm/dd/yy)

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP15MN5N6B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Misc	_
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Copper	7440-50-8
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0
						Misc	—
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5
			Substrate	Glass	0.3303	Cristobalite	14464-46-1
						Aluminium Oxide	1344-28-1
						Misc	-

Domie Boatigh Signature : Donnie Boatrigh Name: Corp. QA Manager Murata Americas Title: Company: Date (mm/dd/yy)

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQP15MN6N8B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Misc	-
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0
						Copper	7440-50-8
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0
						Misc	-
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5
			Substrate	Glass	0.3303	Cristobalite	14464-46-1
						Aluminium Oxide	1344-28-1
						Misc	-

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Corp. QA Manager Murata Americas



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW15AN12NG00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	—
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount		Copper	7440-50-8
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4
				Glass	0.0017	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	_

Domie Boatight Signature : , Donnie Boatrigh Corp. QA Manag Murata America Name: Title: Company: Date (mm/dd/yy)

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW15AN1N5B00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount	0.0392	Copper	7440-50-8
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4
				Glass	0.0017	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	-

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW15AN22NG00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount	0.0392	Copper	7440-50-8
					0.0008	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4
				Glass	0.0017	diboron trioxide; boi	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	_

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW15AN33NG00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount	0.0392	Copper	7440-50-8
					0.0008	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4
				Glass	0.0017	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	_

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW15AN56NG00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount	0.0392	Copper	7440-50-8
					0.0008	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4
				Glass	0.0017	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	_

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW15AN8N2G00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount	0.0392	Copper	7440-50-8
					0.0008	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4
				Glass	0.0017	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0
				Tin plating	0.031	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	_

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW15ANR10J00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount		Copper	7440-50-8
					0.0008	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4
				Glass	0.0017	diboron trioxide; boi	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	_

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW15ANR12J00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount		Copper	7440-50-8
					0.0008	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4
				Glass	0.0017	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	_

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW15ANR12J00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount		Copper	7440-50-8
					0.0008	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4
				Glass	0.0017	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	_

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW18AN33NJ00D	2.6	Ceramic element	Ceramics		Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.054	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount		Copper	7440-50-8
			Magnet Wire Coating	Other thermoplastics	0.0028	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.108	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.12	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	-

Domie Boatig/WA Signature : , Donnie Boatrigh Corp. QA Manag Murata America Name: Title: Company: Date (mm/dd/yy)

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	LQW18ANR27G00D	2.6	Ceramic element	Ceramics	2.1	Aluminum oxide	1344-28-1
						Silicon dioxide	7631-86-9
						Calcium oxide	1305-78-8
						Misc	-
			Copper Plating Layer	Copper plating	0.054	Copper	7440-50-8
			Magnet Wire	Copper (e.g. copper amount		Copper	7440-50-8
			Magnet Wire Coating	Other thermoplastics	0.0028	Polyester imide	68604-67-1
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4
				Glass	0.006	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0
			Tin Plating Layer	Tin plating	0.108	Tin	7440-31-5
			Coating	EP (Epoxy resin)	0.12	Epoxy resin	54847-34-6
						Talc	14807-96-6
						Misc	-

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	NCP18XH103F03RB	4.6381	Ceramic element	Ceramics	4	Manganese oxide	1317-35-7	50			С
							1313-99-1	30			
						Iron(III) oxide	1309-37-1	20			
			Nickel Plating Layer	Nickel plating	0.0332	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0779	Tin	7440-31-5	100			
			Inner electrode	Other special metals	0.157	Palladium	7440-05-3	70			
						Silver (Ag)	7440-22-4	30			
			Outer electrode	Other special metals	0.3478	Silver (Ag)	7440-22-4	95			
						Palladium	7440-05-3	5			
				Glass	0.0222	diboron trioxide; bor	1303-86-2	26			
						sillicon dioxide	7631-86-9	74	> C ; RoHS Complia		

DomieBoatight Signature : Donnie Boatrigh Corp. QA Manag Murata America Name: Company: Date (mm/dd/yy)

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	NCP18XH103J03RB	4.6381	Ceramic element	Ceramics	4	Manganese oxide	1317-35-7	50			С
						Nickel oxide	1313-99-1	30			
						Iron(III) oxide	1309-37-1	20			
			Nickel Plating Layer	Nickel plating	0.0332	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0779	Tin	7440-31-5	100			
			Inner electrode	Other special metals	0.157	Palladium	7440-05-3	70			
						Silver (Ag)	7440-22-4	30			
			Outer electrode	Other special metals	0.3478	Silver (Ag)	7440-22-4	95			
						Palladium	7440-05-3	5			
				Glass	0.0222	diboron trioxide; bor	1303-86-2	26			
						sillicon dioxide	7631-86-9	74	-> C ; RoHS Complia		

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	NFA21SL307X1A45L	7.1	Ceramic element	Ceramics	6.264	Titanium dioxide	13463-67-7
						Barium oxide, obtair	1304-28-5
						Copper oxide; Copp	1317-38-0
						Neodymium oxide	1313-97-9
			Outer electrode	Copper alloys	0.4212	Copper	7440-50-8
				Glass	0.0468	diboron trioxide; bor	1303-86-2
						Silicon dioxide	7631-86-9
			Nickel Plating Layer	Nickel plating	0.027	Nickel	7440-02-0
			Inner electrode	Copper alloys	0.293	Copper	7440-50-8
			Tin Plating Layer	Tin plating	0.048	Tin	7440-31-5

Signature :	DomieBoatight
Name:	Donnie Boatright
Title:	Corp. QA Manage
Company:	Murata Americas
Date (mm/dd/yy))

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	NFE31PT101C1E9L	33.8	Outer electrode of ends	Nickel plating	0.126	Nickel	7440-02-0
				Silver plating	0.21	Silver (Ag)	7440-22-4
				highly alloyed steel	8.064	Nickel	7440-02-0
						Fe	1309-37-1
						Mn	7439-96-5
						Cobalt and its comp	7440-48-4
						Misc	-
			Nickel Plating Layer	Nickel plating	0.083	Nickel	7440-02-0
						Phosphorus	7723-14-0
			Ceramic element 2	Ceramics	9.81	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Cobalt oxide (Co3O	1308-06-1
			Tin Plating Layer	Tin plating	0.553	Tin	7440-31-5
			Inner electrode	Copper alloys	4.97	Copper	7440-50-8
						Tin	7440-31-5
			Ceramic element 1	Ceramics	9.984	Barium oxide, obtair	1304-28-5
						Titanium dioxide	13463-67-7
						Bismuth oxide	1304-76-3
						Misc	-
						Silica	7631-86-9
						Tin dioxide	18282-10-5
						Manganese(II) oxide	1344-43-0

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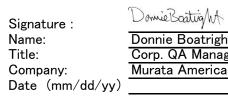
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	NFE61HT330U2A9L	61.7	Outer electrode of ends	Nickel plating	0.129	Nickel	7440-02-0
				Silver plating	0.215	Silver (Ag)	7440-22-4
				highly alloyed steel	8.256	Nickel	7440-02-0
						Fe	1309-37-1
						Mn	7439-96-5
						Cobalt and its comp	7440-48-4
						Misc	_
			Nickel Plating Layer	Nickel plating	0.22	Nickel	7440-02-0
						Phosphorus	7723-14-0
			Ceramic element 2	Ceramics	19.7	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Cobalt oxide (Co3O	1308-06-1
			Tin Plating Layer	Tin plating	1.46	Tin	7440-31-5
			Inner electrode	Copper alloys	9.8	Copper	7440-50-8
						Tin	7440-31-5
			Ceramic element 1	Ceramics	21.92	Titanium dioxide	13463-67-7
						Calcium oxide	1305-78-8
						Misc	_



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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
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The following products are certified to be in compliance with the RoHS (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 08 Ju

Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	NFE61PT361B1H9L	61.7	Outer electrode of ends	Nickel plating	0.129	Nickel	7440-02-0
				Silver plating	0.215	Silver (Ag)	7440-22-4
				highly alloyed steel	8.256	Nickel	7440-02-0
						Fe	1309-37-1
						Mn	7439-96-5
						Cobalt and its comp	7440-48-4
						Misc	-
			Nickel Plating Layer	Nickel plating	0.22	Nickel	7440-02-0
						Phosphorus	7723-14-0
			Ceramic element 2	Ceramics	19.7	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	
						Nickel oxide	1313-99-1
						Copper oxide; Copp	
						Cobalt oxide (Co3O	
			Tin Plating Layer	Tin plating	1.46	Tin	7440-31-5
			Inner electrode	Copper alloys	9.8	Copper	7440-50-8
						Tin	7440-31-5
			Ceramic element 1	Ceramics	21.92	Barium oxide, obtair	1304-28-5
						Titanium dioxide	13463-67-7
						Bismuth oxide	1304-76-3
						Misc	-
						Silica	7631-86-9
						Tin dioxide	18282-10-5
						Manganese(II) oxide	

Signature :	DomieBoatight
Name:	Donnie Boatrigh
Title:	Corp. QA Manag
Company:	Murata America
Date (mm/dd/yy)	

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
100			С
100			
42			
55			
1			
1			
1			
95			
5			
59			
20			
10			
10			
1			
100			
92			
8			
58			
29			
5			
1			
1			
5			
1			
* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	NFE61PT681B1H9L	61.7	Outer electrode of ends	Nickel plating	0.129	Nickel	7440-02-0
				Silver plating	0.215	Silver (Ag)	7440-22-4
				highly alloyed steel	8.256	Nickel	7440-02-0
						Fe	1309-37-1
						Mn	7439-96-5
						Cobalt and its comp	7440-48-4
						Misc	-
			Nickel Plating Layer	Nickel plating	0.22	Nickel	7440-02-0
						Phosphorus	7723-14-0
			Ceramic element 2	Ceramics	19.7	Iron(III) oxide	1309-37-1
						Zinc oxide; C.I. 7794	1314-13-2
						Nickel oxide	1313-99-1
						Copper oxide; Copp	1317-38-0
						Cobalt oxide (Co3O	1308-06-1
			Tin Plating Layer	Tin plating	1.46	Tin	7440-31-5
			Inner electrode	Copper alloys	9.8	Copper	7440-50-8
						Tin	7440-31-5
			Ceramic element 1	Ceramics	21.92	Titanium dioxide	13463-67-7
						Barium oxide, obtair	1304-28-5
						Tin dioxide	18282-10-5
						Bismuth oxide	1304-76-3
						Misc	-

DomieBoatright Donnie Boatrigh Corp. QA Manag Murata America Signature : Name: Title: Company: Date (mm/dd/yy)

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
100			С
100			
42			
55			
1			
1			
1			
95			
5			
59			
20			
10			
10			
1			
100			
92			
8			
20			
65			
5			
5			
5			
* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	NFM21CC222R1H3D	12	Ceramic element	Ceramics	9.25	Barium oxide, obtair	1304-28-5	60			С
						Titanium dioxide	13463-67-7	30]
						Misc	_	10			
			Outer electrode	Copper alloys	1.98	Copper	7440-50-8	100			
				Glass	0.22	diboron trioxide; bor	1303-86-2	20]
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.17	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	0.24	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.14	Tin	7440-31-5	100			
								* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant

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Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
NFM21CC471R1H3D	12	Ceramic element	Ceramics	9.25	Barium oxide, obtair	1304-28-5	60			С
					Titanium dioxide	13463-67-7	30			
					Misc	-	10			
		Outer electrode	Copper alloys	1.98	Copper	7440-50-8	100			
			Glass	0.22	diboron trioxide; bor	1303-86-2	20			
					Silicon dioxide	7631-86-9	80			
		Nickel Plating Layer	Nickel plating	0.17	Nickel	7440-02-0	100			
		Inner electrode	Nickel and Nickel alloys	0.24	Nickel	7440-02-0	100			
		Tin Plating Layer	Tin plating	0.14	Tin	7440-31-5	100			
							* EU-RoHS(C/NG) -	-> C ; RoHS Complia	nt, NG ; RoHS Not	Compliant
		VFM21CC471R1H3D 12	NFM21CC471R1H3D 12 Ceramic element Outer electrode Nickel Plating Layer Inner electrode	NFM21CC471R1H3D 12 Ceramic element Ceramics Outer electrode Copper alloys Glass Glass Nickel Plating Layer Nickel plating Inner electrode Nickel alloys	Murata Part No.Weight (mg)Component PartMaterial Namematerial in Component (mg)NFM21CC471R1H3D12Ceramic elementCeramics9.25Image: Second Sec	Murata Part No.Weight (mg)Component PartMaterial Namematerial in Component in Component (mg)Substance NameNFM21CC471R1H3D12Ceramic elementCeramics9.25Barium oxide, obtair Titanium dioxideImage: Second Seco	Murata Part No.Weight (mg)Component PartMaterial Namematerial in Component (mg)Substance NameCAS No.NFM21CC471R1H3D12Ceramic elementCeramics9.25Barium oxide, obtair1304-28-5Image: NFM21CC471R1H3D12Ceramic elementCeramics9.25Barium oxide, obtair1304-28-5Image: NFM21CC471R1H3DOuter electrodeCopper alloys1.98Copper7440-50-8Image: NFM21CC471R1H3DImage: Nickel Plating LayerNickel plating0.17Nickel7440-02-0Image: NFM21CC471R1H3DImage: Nickel and Nickel alloys0.24Nickel7440-02-0	Murata Part No.Weight (mg)Component PartMaterial Namematerial in Component (mo)Substance NameCAS No.Weight % of substance in MaterialNFM21CC471R1H3D12Ceramic elementCeramics9.25Barium oxide, obtair1304-28-560Image: Application of the state	Murata Part No.Weight (mg)Component PartMaterial Namematerial in Component (mn)Substance NameCAS No.Weight % of substance in MaterialRoHS CorrespondenceVFM21CC471R1H3D12Ceramic elementCeramics9.25Barium oxide, obtair1304-28-560VE1Ceramic elementCeramics9.25Barium oxide, obtair13463-67-730VE10Copper alloys1.98Copper7440-50-8100 </td <td>Murata Part No.Weight (mg)Component PartMaterial Namematerial in Component (mo)Substance NameCAS No.Weight % of substance in MaterialRoHS CorrespondenceExemp. CdVFM21CC471R1H3D12Ceramic elementCeramics9.25Barium oxide, obtair1304-28-560Image: International Control Contro</td>	Murata Part No.Weight (mg)Component PartMaterial Namematerial in Component (mo)Substance NameCAS No.Weight % of substance in MaterialRoHS CorrespondenceExemp. CdVFM21CC471R1H3D12Ceramic elementCeramics9.25Barium oxide, obtair1304-28-560Image: International Control Contro

Signature :	DomieBoatigM
Name:	Donnie Boatright
Title:	Corp. QA Manager
Company:	Murata Americas
Date (mm/dd/yy)	

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Customer Part No.	Murata Part No.	Weight (mg)		Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	SAFEB1G57KB0F00R15	3.2	BumpPad	Titanium and titanium alloys	0.08	Titanium	7440-32-6
						Aluminium	7429-90-5
			Bump	Gold	0.32	Gold	7440-57-5
						Calcium	7440-70-2
						Y2O3	1314-36-9
			Electrode	Cast aluminium alloys	0.016	Aluminium	7429-90-5
						Copper	7440-50-8
						SiO2	7631-86-9
						Titanium	7440-32-6
			PackageResin	EP (Epoxy resin)	0.4352	6-glycidyloxynapht-	27610-48-6
						BisphenolA epoxy	25068-38-6
						PMMA	9011-14-7
						Silica	7631-86-9
						Phenol, styrenated	61788-44-1
						Bismuth hydroxide	10361-43-0
						Bismuth hydroxide	1304-85-4
						Carbon black	1333-86-4
			Package	Cast aluminium alloys	1.6183	AI2O3	1344-28-1
						SiO2	7631-86-9
						CaO	1305-78-8
						MgO	1309-48-4
						Cr2O3	1308-38-9
						TiO2	13463-67-7
						Tungsten	7440-33-7
						Molybden	7439-98-7
				Nickel plating	0.0347	Nickel	7440-02-0
						Cobalt and its comp	7440-48-4
				Gold plating	0.0142	Gold	7440-57-5
			Resin		0.0096	Polyimide	25036-53-7
			Wafer[LT]		0.672	LiTaO3	12031-66-2

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
51			С
49			
99.98			
0.01			
0.01			
87			
9			
2			
2			
15			
2			
9.8			
56.6			
16			
0.2			
0.2			
0.2			
75.61			
2.89			
0.27			
0.4			
3.1			
0.8			
16.42			
0.51			
80			
20			
100			
100			
100			
* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	SCA100T-D02-1	1128.9	SCA1000 Housing	Copper alloys	187.5	Copper	7440-50-8
						Iron	7439-89-6
						zinc	7440-66-6
						Manganese	7439-96-5
						Phosphorus	7723-14-0
						Misc., not to declar	e –
				Nickel plating	3.4	Nickel	7440-02-0
						Carbon	7440-44-0
						Sulphur	7704-34-9
				Gold plating	1	Gold	7440-57-5
						Carbon	7440-44-0
						Nitrogen	7727-37-9
				filled Thermoplastics	618	LCP	_
						GF-Fibre	-
			Silicone gel fill	Others (Cured resin or duro	75	Silicone rubber	63394-02-5
						Misc., not to declar	-
			Die attach	Others (Cured resin or duro	6	Aluminium oxide	1344-28-1
						Zinc oxide; C.I. 7794	1314-13-2
						Glass spheres	-
						Misc., not to declar	-
						Polydimethylsiloxar	63394-02-5
			Bond wires	Gold	1	Gold	7440-57-5
						Misc., not to declar	-
			ASIC M76001B	Other nonferrous metals	12	Silicon	7440-21-3
						Aluminium (metal)	7429-90-5
						Silicon-nitride	12033-60-2
						Silica, amorphous	112926-00-8
			Small Element	Other nonferrous metals	54	Silicon	7440-21-3
				Glass	5.4	Silica, Crystalline	14808-60-7
						Aluminium oxide	1344-28-1
						Disodium-oxide	1313-59-3
						Misc., not to declar	e –
				Gold vapor deposition film(Id	0.6	Gold	7440-57-5
						Aluminium (metal)	7429-90-5
						Misc., not to declar	e —
			SCA10x0 Lid	highly alloyed steel	165	Nickel	7440-02-0
						Carbon	7440-44-0
						Silicon	7440-21-3
						Manganese	7439-96-5
						Phosphorus	7723-14-0
						Sulphur	7704-34-9
						Chromium	7440-47-3
						Iron	7439-89-6

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Donnie Boatrigh Corp. QA Manag Murata America Date (mm/dd/yy)

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
97.2925			С
2.35			
0.125			
0.05			
0.0825			
0.1			
99.589			
0.4			
0.015			
99.945			
0.005			
0.05			
68			
32			
97.5			
2.5			
48.6923			
14.6514			
9.0769			
2.5385			
25.0769			
99.99			
1			
99.6			
0.1			
0.1			
0.2			
100			
70			
15			
6			
 9			
 9 46			
46 8			
8 7			
-			
 0.075			
 0.5			
1			
0.0225			
0.015			
17			
74.3875			
* EU-RoHS(C/NG)	-> C ; RoHS Complia	ant, NG ; RoHS Not (Jompliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	SCA103T-D04-1	1130	SCA1000 Housing	Copper alloys	187.5	Copper	7440-50-8
						Iron	7439-89-6
						zinc	7440-66-6
						Manganese	7439-96-5
						Phosphorus	7723-14-0
						Misc., not to declar	e –
				Nickel plating	3.4	Nickel	7440-02-0
						Carbon	7440-44-0
						Sulphur	7704-34-9
				Gold plating	1	Gold	7440-57-5
						Carbon	7440-44-0
						Nitrogen	7727-37-9
				filled Thermoplastics	618	LCP	-
						GF-Fibre	-
			Silicone gel fill	Others (Cured resin or duro	75	Silicone rubber	63394-02-5
						Misc., not to declar	
			Die attach	Others (Cured resin or duro	6	Aluminium oxide	1344-28-1
						Zinc oxide; C.I. 7794	
						Glass spheres	-
						Misc., not to declar	-
						Polydimethylsiloxar	
			Bond wires	Gold	1	Gold	7440-57-5
						Misc., not to declar	
			ASIC M76001B	Other nonferrous metals	12	Silicon	7440-21-3
						Aluminium (metal)	7429-90-5
						Silicon-nitride	12033-60-2
						Silica, amorphous	112926-00-8
			Small Element	Other nonferrous metals	54	Silicon	7440-21-3
					5.4	Silica, Crystalline	14808-60-7
						Aluminium oxide	1344-28-1
						Disodium-oxide	1313-59-3
						Misc., not to declar	
				Gold vapor deposition film(Id	0.6	Gold	7440-57-5
						Aluminium (metal)	7429-90-5
						Misc., not to declar	
			SCA10x0 Lid	highly alloyed steel	165	Nickel	7440-02-0
						Carbon	7440-44-0
						Silicon	7440-21-3
						Manganese	7439-96-5
						Phosphorus	7723-14-0
						Sulphur	7704-34-9
						Chromium	7440-47-3
						Iron	7439-89-6

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Donnie Boatrigh Corp. QA Manag Murata America Date (mm/dd/yy)

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	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	97.2925			С
	2.35			
	0.125			
	0.05			
	0.0825			
	0.1			
	99.589			
	0.4			
	0.015			
	99.945			
	0.005			
	0.05			
	68			
	32			
	97.5			
,	2.5			
	48.6923			
,	14.6514			
	9.0769			
	2.5385			
	25.0769			
	99.99			
	1			
	99.6			
	0.1			
	0.1			
	0.2			
	100			
	70			
	15			
	6			
	9			
	46			
	46			
	8			
	7			
	, 0.075			
	0.5			
	1			
	0.0225			
	0.015			
	17			
	74.3875			
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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	SCA103T-D04-6	1130	SCA1000 Housing	Copper alloys	187.5	Copper	7440-50-8
						Iron	7439-89-6
						zinc	7440-66-6
						Manganese	7439-96-5
						Phosphorus	7723-14-0
						Misc., not to declar	
				Nickel plating	3.4	Nickel	7440-02-0
						Carbon	7440-44-0
						Sulphur	7704-34-9
				Gold plating	1	Gold	7440-57-5
						Carbon	7440-44-0
						Nitrogen	7727-37-9
				filled Thermoplastics	618	LCP	-
						GF-Fibre	-
			Silicone gel fill	Others (Cured resin or duro	75	Silicone rubber	63394-02-5
						Misc., not to declar	
			Die attach	Others (Cured resin or duro	6	Aluminium oxide	1344-28-1
						Zinc oxide; C.I. 7794	1314-13-2
						Glass spheres	-
						Misc., not to declar	
						Polydimethylsiloxan	
			Bond wires	Gold	1	Gold	7440-57-5
						Misc., not to declar	
			ASIC M76001B	Other nonferrous metals	12	Silicon	7440-21-3
						Aluminium (metal)	7429-90-5
						Silicon-nitride	12033-60-2
						Silica, amorphous	112926-00-8
			Small Element		54	Silicon	7440-21-3
				Glass	5.4	Silica, Crystalline	14808-60-7
						Aluminium oxide	1344-28-1
						Disodium-oxide	1313-59-3
						Misc., not to declar	
				Gold vapor deposition film(Id	0.6	Gold	7440-57-5
						Aluminium (metal)	7429-90-5
						Misc., not to declar	
			SCA10x0 Lid	highly alloyed steel	165	Nickel	7440-02-0
		ļ				Carbon	7440-44-0
		 				Silicon	7440-21-3
		ļ				Manganese	7439-96-5
		 				Phosphorus	7723-14-0
		 				Sulphur	7704-34-9
		 				Chromium	7440-47-3
						Iron	7439-89-6

DomieBoatight

Donnie Boatrigh Corp. QA Manag Murata America Date (mm/dd/yy)

Signature :

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
97.2925			С
2.35			
0.125			
0.05			
0.0825			
0.1			
99.589			
0.4			
0.015			
99.945			
0.005			
0.05			
68			
32			
97.5			
2.5			
48.6923			
14.6514			
9.0769			
2.5385			
25.0769			
99.99			
1			
99.6			
0.1			
0.1			
0.2			
100			
70			
15			
6			
9			
46			
46			
8			
7			
0.075			
0.5			
1			
0.0225			
0.015			
17			
74.3875			
* EU-RoHS(C/NG) -	-> C ; RoHS Complia	ant, NG ; RoHS Not (Compliant

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					Weight of			Weight % of	RoHS		
Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	material in Component	Substance Name	CAS No.	substance in Material	Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
C	SCA3100-D04-1	315	ADP Housing	Other thermoplastics	(mg) 149.5	LCP	-	68			C
						GF-Fibre	<u> </u>	32	+ +		۲° ا
				Copper alloys	22.5	Copper	7440-50-8	97.3275	++		1
						Iron	7439-89-6	2.35	1		1
						Zinc	7440-66-6	0.125	1 1		1
		-				Phosphorus	7723-14-0	0.0825			1
						Lead	7439-92-1	0.015	X	Below threshold	1
		-				Misc	-	0.1			1
		-		Nickel plating	0.4	Nickel	7440-02-0	99.825			1
		1				Sulphur	7704-34-9	0.075			1
						Nitrogen	7727-37-9	0.05			1
						Carbon	7440-44-0	0.05			1
				Gold plating	0.12	Gold	7440-57-5	99.945			7
						Nitrogen	7727-37-9	0.05			7
						Carbon	7440-44-0	0.005			1
			ASIC SCI023-v3	Other inorganic metals	7.63	Silicon	7440-21-3	98.95]
							112926-00-8	0.65			
							7429-90-5	0.15]
							12033-60-2	0.15]
						Misc	-	0.1			1
			Triax-G_Al-pads	Other inorganic metals	13.9	Silicon	7440-21-3	100			1
		1		Glass	4.9		14808-60-7	70			1
							1344-28-1	15			1
							1313-59-3	6			1
						Misc	-	9			1
				Cast aluminium alloys	0.03	Aluminium	7429-90-5	75.425			1
						Titanium	7440-32-6	18.5			1
						Copper	7440-50-8	0.075			
						Misc	-	6			
			ADP Lid	highly alloyed steel	70	Iron	7439-89-6	74.3875			
						Chromium	7440-47-3	17			
						Nickel	7440-02-0	7			
						Manganese	7439-96-5	1			
						Silicon	7440-21-3	0.5			
						Carbon	7440-44-0	0.075			
		′				Phosphorus	7723-14-0	0.0225			_
		′	ļ				7704-34-9	0.015			_l
		′	Silicone gel fill	Others (Cured resin or dur	ro 36	Silicone rubber	63394-02-5	98			_
		′				Misc	<u> -</u>	2			_
		_ ′	Sensor die attach	Others (Cured resin or dur	<u>ro 3</u>	Polydimethylsiloxan		85			_
		_ ′	l			Silica, ((ethenyldime		15			_
		_ ′	ASIC die attach	Others (Cured resin or dur	<u>ro 3</u>	Silica, vitreous	60676-86-0	80			⊣
		′	 			Epoxy Resin	<u> -</u>	16			_
		_ ′	l			Misc	<u> -</u>	4			_
		_ ′	Bond wire	Gold	1.5	Gold	7440-57-5	99.99			_
		_ ′	l			Misc	<u> -</u>	0.01			_
		_ ′	SCA1000 Spring	highly alloyed steel	2.3	Iron	7439-89-6	71.636			⊣
		′	 			Chromium	7440-47-3	18.13			_
		′	l				7440-02-0	8.29			_
		_ ′	l				7439-96-5	0.86			_
		_ ′	l				7439-98-7	0.4			_
		_ ′	l			Silicon	7440-21-3	0.58			⊣
		′	 			Carbon	7440-44-0	0.075			_
		· · · · · · · · · · · · · · · · · · ·	1		1		7723-14-0	0.028	1		
							7704-34-9	0.001			

Domie Boatig/W Signature : Donnie Boatrigh Corp. QA Manag Murata America

Company: Date (mm/dd/yy)

Name:

Title:

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* EU-RoHS(C/NG) --> C ; RoHS Compliant, NG ; RoHS Not Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG
	SCC1300-D02-6	1239.968	Cobra housing	Other thermoplastics	(ma) 443	LCP	_	68			С
	300-002-0	1239.900	Cobra nousing		440	GF-Fibre	_	32			
				Copper alloys	325	Copper	7440-50-8	97.3275			4
					020	Iron	7439-89-6	2.35			4
						Zinc	7440-66-6	0.125			4
						Phosphorus	7723-14-0	0.0825			4
						Lead	7439-92-1	0.015	Х	Below threshold	1
						Misc	-	0.1			1
				Nickel plating	5.7	Nickel	7440-02-0	99.825			
						Sulphur	7704-34-9	0.075			
						Carbon	7440-44-0	0.05			
						Nitrogen	7727-37-9	0.05			
				Gold plating	1.2	Gold	7440-57-5	99.945			4
						Nitrogen	7727-37-9	0.05			4
						Carbon	7440-44-0	0.005			4
			ASIC SCI023-v3	Other inorganic metals	7.63	Silicon	7440-21-3	98.95			4
				+		Silica, amorphous	112926-00-8	0.65			4
						Aluminium Siliaan nituida	7429-90-5	0.15			4
						Silicon-nitride	12033-60-2	0.15			4
			Triov-C Al-rodo	Other increasis matala	12.0	Misc	7440-21-2	0.1		<u> </u>	4
			Triax-G_Al-pads	Other inorganic metals Glass	13.9 4.9	Silicon Glass without decla	7440-21-3	100 100			4
					4.9 0.03	Aluminium		75.5			4
					0.00	Titanium	7429-90-5	18.5			4
						Misc	-	6			-
			Cobra lid	highly alloyed steel	204	Iron	7439-89-6	74.3875			-{
					204	Chromium	7440-47-3	17			4
						Nickel	7440-02-0	7			4
						Manganese	7439-96-5	1			4
						Silicon	7440-21-3	0.5			1
						Carbon	7440-44-0	0.075			4
						Phosphorus	7723-14-0	0.0225			1
						Sulphur	7704-34-9	0.015			1
			Silicone gel fill	Others (Cured resin or duro	160	VMQ	-	98			1
			U			Further Additives,ne	-	2			1
			Sensor die attach	Others (Cured resin or duro	11.7	Polydimethylsiloxan	63394-02-5	85			1
						Silica, ((ethenyldime	68988-89-6	15			
			ASIC die attach	Others (Cured resin or duro	22	Silver (Ag)	7440-22-4	84.5			
						Phenol, 4,4'-(1- me	25068-38-6	14.5			
						Misc	-	1			
			Bond wire	Gold	1.6	Gold	7440-57-5	99.9925			
						Arsenic, elemental		0.0008			4
						Bismuth	7440-69-9	0.0005			4
						Chromium	7440-47-3	0.0001			4
						Copper	7440-50-8	0.0013			4
						Iron	7439-89-6	0.0005			4
						Magnesium	7439-95-4	0.0008		l	4
						Manganese	7439-96-5	0.0001			4
						Nickel	7440-02-0	0.0001	V		4
						Lead	7439-92-1	0.0005	٨	Below threshold	4
						Paladium Siliaan	7440-05-3 7440-21-3	0.0013 0.0013			4
						Silicon	7440-21-3	0.0013			4
			Omora alamant	Other increasis metals	13.7	Tin Silicon	7440-31-5	100			4
			Omega element		6.5	Glass without decla		100			4
				Glass Cast aluminium alloys	0.008	Aluminium	_ 7429-90-5	75.425			4
					0.000	Titanium	7429-90-5	18.5			4
				1		Copper	7440-32-0	0.075			4
				1		Misc		6			4
			Cobra gyro ASIC	Other inorganic metals	19.1	Silicon	7440-21-3	98.95			4
			SODIA BUIO AOLO		10.1	Silica,amorphous	112926-00-8	0.65			4
				1		Aluminium	7429-90-5	0.15			1
		1		1		Silicon-nitride	12033-60-2	0.15			1
				1		Misc	-	0.1			1
				1	1			* EU-RoHS(C/NG)			

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Donnie Boatright Corp. QA Manager Murata Americas 4/3/18



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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	SCR2100-D08-05	960.208	Combo2 housing	Other thermoplastics	313.5	LCP	-
						GF-Fibre	-
				Copper alloys	224.3	Copper	7440-50-8
						Iron	7439-89-6
						Zinc	7440-66-6
						Phosphorus	7723-14-0
						Lead	7439-92-1
						Misc	_
				Nickel plating	5.5	Nickel	7440-02-0
						sulphur	7704-34-9
						Carbon	7440-44-0
						Nitrogen	7727-37-9
				Gold plating	1.4	Gold	7440-57-5
						Nitrogen	7727-37-9
						Carbon	7440-44-0
			Comboll-CAR ASIC	Other inorganic metals	16	Silicon	7440-21-3
						Silica, amorphous	112926-00-8
						Aluminium	7429-90-5
						Silicon-nitride	12033-60-2
						Misc	_
			Combo2 lid	highly alloyed steel	233.7	Iron	7439-89-6
						Chromium	7440-47-3
						Nickel	7440-02-0
						Manganese	7439-96-5
						Silicon	7440-21-3
						Carbon	7440-44-0
						Phosphorus	7723-14-0
						sulphur	7704-34-9
			Silicone gel fill	Others (Cured resin or duro	115	Silicone rubber	63394-02-5
						Misc	-
			Sensor die attach	Others (Cured resin or duro	7	Polydimethylsiloxan	
						Silica, ((ethenyldime	
			ASIC die attach	Others (Cured resin or duro	22		7440-22-4
						Phenol, 4,4'–(1– me	25068-38-6
						Misc	-
			Bond wire	Gold	1.6	Gold	7440-57-5
						Misc	-
	l		Omega element	Other inorganic metals	13.7	Silicon	7440-21-3
				Glass	6.5	Silica, Crystalline	14808-60-7
						Aluminium Oxide	1344-28-1
						Disodium-oxide	1313-59-3
	l					Misc	-
				Cast aluminium alloys	0.008	Aluminium	7429-90-5
						Titanium	7440-32-6
						Copper	7440-50-8
						Misc	-

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
68			С
32			
97.3275			
2.35			
0.125			
0.0825			
0.015	Х	Below threshold	
0.1			
99.825			
0.075			
0.05			
0.05			
99.945			
0.05			
0.005			
98.95			
0.65			
0.15			
0.15			
0.1			
74.3875			
17			
7			
1			
0.5			
0.075			
0.0225			
0.015			
98			
2			
85			
15			
84.5			
14.5			
1			
99.99			
0.01			
100			
70			
 15			
6			
9			
75.425			
18.5			
0.075			
6			
* $EU-R \cap HS(C/NG)$ -	-> C : RoHS Compli	ant_NG · RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.
	SCR2100-D08-6	960.208	Combo2 housing	Other thermoplastics	313.5	LCP	-
						GF-Fibre	-
				Copper alloys	224.3	Copper	7440-50-8
						Iron	7439-89-6
						Zinc	7440-66-6
						Phosphorus	7723-14-0
						Lead	7439-92-1
						Misc	-
				Nickel plating	5.5	Nickel	7440-02-0
						sulphur	7704-34-9
						Carbon	7440-44-0
						Nitrogen	7727-37-9
				Gold plating	1.4	Gold	7440-57-5
						Nitrogen	7727-37-9
						Carbon	7440-44-0
			Comboll-CAR ASIC	Other inorganic metals	16	Silicon	7440-21-3
						Silica, amorphous	112926-00-8
						Aluminium	7429-90-5
						Silicon-nitride	12033-60-2
						Misc	-
			Combo2 lid	highly alloyed steel	233.7	Iron	7439-89-6
						Chromium	7440-47-3
						Nickel	7440-02-0
						Manganese	7439-96-5
						Silicon	7440-21-3
						Carbon	7440-44-0
						Phosphorus	7723-14-0
						sulphur	7704-34-9
			Silicone gel fill	Others (Cured resin or duro	115	Silicone rubber	63394-02-5
						Misc	-
			Sensor die attach	Others (Cured resin or duro	7	Polydimethylsiloxan	
						Silica, ((ethenyldime	
			ASIC die attach	Others (Cured resin or duro	22		7440-22-4
						Phenol, 4,4'–(1– me	25068-38-6
	1					Misc	-
			Bond wire	Gold	1.6	Gold	7440-57-5
						Misc	-
			Omega element	Other inorganic metals	13.7	Silicon	7440-21-3
				Glass	6.5	Silica, Crystalline	14808-60-7
						Aluminium Oxide	1344-28-1
						Disodium-oxide	1313-59-3
						Misc	-
				Cast aluminium alloys	0.008	Aluminium	7429-90-5
						Titanium	7440-32-6
						Copper	7440-50-8
						Misc	-

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Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
68			С
32			
97.3275			
2.35			
0.125			
0.0825			
0.015	Х	Below threshold	
0.1			
99.825			
0.075			
0.05			
0.05			
99.945			
0.05			
0.005			
98.95			
0.65			
0.15			
0.15			
0.1			
74.3875			
17			
7			
1			
0.5			
0.075			
0.0225			
0.015			
98			
2			
85			
15			
84.5			
14.5			
1			
99.99			
0.01			
100			
70			
15			
6			
9			
75.425			
18.5			
0.075			
6			
* $FU_R \cap HS(C/NG)$ -	-> C : RoHS Compli	ant_NG · RoHS Not (Compliant

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Customer Part No.	Murata Part No.	Weight (mg)	Component Part	Material Name	Weight of material in Component (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	SFECF10M7FA00-R0	65.4	Resonant Ceramic Elements	Ceramics	34.63	Lead titanium zircor	12626-81-2	100	Х	7(c)-I	С
			Inner Electrode	Other special metals	0.1	Copper	7440-50-8	20			
						Nickel	7440-02-0	20			
						Silver (Ag)	7440-22-4	60			
			Substrate	Ceramics	29.97	Magnesium titanium	12032-30-3	100			
			Outer Electrode	Other special metals	0.2	Nickel	7440-02-0	35			
						Tin	7440-31-5	25			
						Chromium	7440-47-3	5			
						Silver (Ag)	7440-22-4	35			
			Adhesive	EP (Epoxy resin)	0.5	Epoxy Resin	-	100			
						Title:	DomieBoatrigM Donnie Boatright Corp. QA Manager	* EU-RoHS(C/NG) ·	> C ; RoHS Complia	ant, NG ; RoHS Not	Compliant

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Murata Americas

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