


Composition Sheet(EU-RoHS Certificate)

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)*
	GA343QR7GD222KW01L	110.01	Ceramic element	Ceramics	87.896	Barium oxide, obtair	1304-28-5	60			C
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	5.6547	Copper	7440-50-8	100			
				Glass	0.6283	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.288	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	14.752	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.781	Tin	7440-31-5	100			
			Ink	Coating (Other compounds)	0.01	Carbon black	1333-86-4	1			
						PAK	-	99			

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

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 Title: Corp. QA Manager
 Company: Murata Americas
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	GCM188R71H104KA57J	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GCM32ER70J476KE19L	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			C
						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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	GCM32ER71H105KA01L	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			C
						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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	GCM32ER71H105KA37L	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			C
						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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	GJM0335C1ER80BB01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8	100			C
				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	Copper alloys	0.009	Copper	7440-50-8	100			
			Tin Plating Layer	Tin plating	0.02	Tin	7440-31-5	100			
			Ceramic element	Ceramics	0.214	Calcium oxide	1305-78-8	25			
						Misc	-	10			
						Zirconium oxide	1314-23-4	60			
						Manganese(II) oxide	1344-43-0	5			

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	GJM1555C1H150JB01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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	Copper alloys	0.295	Copper	7440-50-8	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	25			
						Misc	-	10			
						Zirconium oxide	1314-23-4	60			
						Manganese(II) oxide	1344-43-0	5			

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	GJM1555C1H2R2BB01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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	Copper alloys	0.295	Copper	7440-50-8	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	25			
						Misc	-	10			
						Zirconium oxide	1314-23-4	60			
						Manganese(II) oxide	1344-43-0	5			

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	GJM1555C1H4R0WB01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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	Copper alloys	0.295	Copper	7440-50-8	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Ceramic element	Ceramics	1.034	Calcium oxide	1305-78-8	25			
						Misc	-	10			
						Zirconium oxide	1314-23-4	60			
						Manganese(II) oxide	1344-43-0	5			

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	GQM2195C1H220JB01D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			C
				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	25			
						Misc	-	10			
						Zirconium oxide	1314-23-4	60			
						Manganese(II) oxide	1344-43-0	5			

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	GQM2195C2E560GB12D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			C
				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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	GQM2195C2E620GB12D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			C
				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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	GQM2195C2E750GB12D	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			C
				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			C
				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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	GRM0335C1E390JA01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8	100			C
				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			C
				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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	GRM0335C1H121JA01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8	100			C
				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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	GRM0335C1H270JA01D	0.33	Outer electrode	Copper alloys	0.072	Copper	7440-50-8	100			C
				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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	GRM033R60J224ME90D	0.33	Ceramic element	Ceramics	0.22	Barium oxide, obtair	1304-28-5	60			C
						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 Compliant, NG ; RoHS Not Compliant

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

Composition Sheet(EU-RoHS Certificate)

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)*
	GRM033R61A272KA01D	0.33	Ceramic element	Ceramics	0.22	Barium oxide, obtair	1304-28-5	60			C
						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 Compliant, 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

Composition Sheet(EU-RoHS Certificate)

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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			C
						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 Compliant, NG ; RoHS Not Compliant

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 Name: Donnie Boatright
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Composition Sheet(EU-RoHS Certificate)

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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			C
				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 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1555C1H102FA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H120GA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H150FA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H151FA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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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			C
				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			

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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			C
				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			

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	GRM1555C1H1R5BA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H1R5CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H1R5CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H1R8CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H1R8CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H2R7CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H301GA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H3R0CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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	GRM1555C1H3R9CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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

Composition Sheet(EU-RoHS Certificate)

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)*
	GRM1555C1H4R7CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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 Compliant, NG ; RoHS Not Compliant

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

Composition Sheet(EU-RoHS Certificate)

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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			C
				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 Compliant, 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

Composition Sheet(EU-RoHS Certificate)

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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)*
	GRM1555C1H6R8CA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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 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 (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			C
				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			

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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			C
				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			

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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			C
				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			

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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)*
	GRM1555C1HR90BA01D	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				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			

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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			C
						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			

* 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 (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			C
						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			

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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)*
	GRM155R60J105ME19D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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			

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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)*
	GRM155R60J184KE01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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			

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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)*
	GRM155R60J225ME15D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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			

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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)*
	GRM155R60J225ME95D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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			

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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			C
						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			

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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			C
						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			

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	GRM155R61C225ME44D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM155R71A104KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM155R71A473KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM155R71C153KA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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 Compliant, NG ; RoHS Not Compliant

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

Composition Sheet(EU-RoHS Certificate)

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)*
	GRM155R71C183JA01D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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 Compliant, 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

Composition Sheet(EU-RoHS Certificate)

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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			C
						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 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 (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			C
						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 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 (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			C
						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 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 (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			C
						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			

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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			C
						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			

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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			C
						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			

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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)*
	GRM155R71H473KE14D	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM1885C1H101JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			C
				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 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM1885C1H120JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			C
				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			

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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)*
	GRM1885C1H181JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			C
				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			

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	GRM1885C1H202JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			C
				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			

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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)*
	GRM1885C1H220JA01B	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			C
				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			

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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)*
	GRM1885C1H2R2CA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			C
				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 Compliant, NG ; RoHS Not Compliant

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 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)*
	GRM1885C1H3R3CA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			C
				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			

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	GRM1885C1H7R0CA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			C
				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			

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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)*
	GRM1885C2A180JA01D	6.3	Outer electrode	Copper alloys	1.0539	Copper	7440-50-8	100			C
				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			

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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			C
						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			

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

Composition Sheet(EU-RoHS Certificate)

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)*
	GRM188R61A105MA61D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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 Compliant, NG ; RoHS Not Compliant

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

Composition Sheet(EU-RoHS Certificate)

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)*
	GRM188R70J105KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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 Compliant, 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

Composition Sheet(EU-RoHS Certificate)

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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)*
	GRM188R71A154KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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 Compliant, NG ; RoHS Not Compliant

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Composition Sheet(EU-RoHS Certificate)

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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)*
	GRM188R71C103KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R71C105KA12D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	GRM188R71C333KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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 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 (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			C
						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			

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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			C
						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			

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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			C
						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 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 (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			C
						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			

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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			C
						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			

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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			C
						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 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 (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			C
						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 Compliant, NG ; RoHS Not Compliant

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	GRM188R72A103KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM188R72A104KA35D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM188R72A221KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM2165C1H331JA01D	6.4	Outer electrode	Copper alloys	0.8154	Copper	7440-50-8	100			C
				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 Compliant, NG ; RoHS Not Compliant


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	GRM2165C1H391JA01D	6.4	Outer electrode	Copper alloys	0.8154	Copper	7440-50-8	100			C
				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			

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	GRM2165C1H471JA01D	6.4	Outer electrode	Copper alloys	0.8154	Copper	7440-50-8	100			C
				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 Compliant, NG ; RoHS Not Compliant

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 Title: Corp. QA Manager
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 Date (mm/dd/yy) 4/3/18

Composition Sheet(EU-RoHS Certificate)

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)*
	GRM216R71H223KA01D	9.6	Ceramic element	Ceramics	5.43	Barium oxide, obtair	1304-28-5	60			C
						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 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 (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			C
						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 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 (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			C
				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 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 (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			C
				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			

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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			C
						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 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 (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			C
						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			

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	GRM219R71H273KA01D	11	Ceramic element	Ceramics	7.001	Barium oxide, obtair	1304-28-5	60			C
						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			

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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			C
						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			

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	GRM21B5C1H223JA01L	16	Outer electrode	Copper alloys	1.908	Copper	7440-50-8	100			C
				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			

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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			C
						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			

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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)*
	GRM21BR61A226ME51L	19	Ceramic element	Ceramics	13.304	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM21BR61A475KA73L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM21BR71C154KA01L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM21BR71E224KA01L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM21BR71H474KA88L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM21BR71H683KA01L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM21BR72A103KA01L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtair	1304-28-5	60			C
						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			

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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)*
	GRM31BR72J103KW01L	40	Ceramic element	Ceramics	31.066	Barium oxide, obtair	1304-28-5	60			C
						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			

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Composition Sheet(EU-RoHS Certificate)

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)*
	GRM31CR60J226KE19L	52	Ceramic element	Ceramics	41.886	Barium oxide, obtair	1304-28-5	60			C
						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 Compliant, NG ; RoHS Not Compliant

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 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)*
	GRM31CR61A475KA01L	52	Ceramic element	Ceramics	43.267	Barium oxide, obtair	1304-28-5	60			C
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			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 Compliant, NG ; RoHS Not Compliant

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	GRM31CR71A106KA01L	52	Ceramic element	Ceramics	41.886	Barium oxide, obtair	1304-28-5	60			C
						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			

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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)*
	GRM31CR71E335KA88L	52	Ceramic element	Ceramics	41.886	Barium oxide, obtair	1304-28-5	60			C
						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			

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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			C
						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			

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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			C
						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			

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	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			

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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)*
	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			

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	GRM32ER60J476ME20K	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			C
						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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	GRM32ER60J476ME20L	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			C
						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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	GRM32ER71H475KA88K	110	Ceramic element	Ceramics	93.021	Barium oxide, obtair	1304-28-5	60			C
						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.	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			C
						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			

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	GRM43DR72E474KW01L	150	Ceramic element	Ceramics	125.383	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM43RR71H334KA01L	110	Ceramic element	Ceramics	90.679	Barium oxide, obtair	1304-28-5	60			C
						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			

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	GRM55DR72E105KW01L	290	Ceramic element	Ceramics	254.05	Barium oxide, obtair	1304-28-5	60			C
						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			

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	#A921CY-101M=P3	358.1	Adhesive 1	EP (Epoxy resin)	0.4	Epoxy resin	58421-55-9	88.1			C
						Diuron; 3-(3,4-dichlorophenyl)-1,1-dimethyl-2,2,4,4-tetrahydro-1,3,5-triazin-6-one	330-54-1	3.8			
						Zinc oxide; C.I. 7794	1314-13-2	3.8			
						Calcium carbonate	471-34-1	3.3			
						Misc., not to declare	-	1			
			Adhesive 2	EP (Epoxy resin)	1.5	Epoxy resin	9003-36-5	64.65			
						Calcium carbonate	471-34-1	30.65			
						Titanium dioxide	13463-67-7	3			
						C.I. Pigment Blue 28	1345-16-0	0.7			
						Misc., not to declare	-	1			
			Drum core	Ceramics	110.5	Iron(III) oxide	1309-37-1	67			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	9			
						Copper oxide; Copp	1317-38-0	4			
			Ring core	Ceramics	160.2	Iron(III) oxide	1309-37-1	67			
						Zinc oxide; C.I. 7794	1314-13-2	20			
						Nickel oxide	1313-99-1	9			
						Copper oxide; Copp	1317-38-0	4			
			Marking 1	Painted resin	0.1	Maleic acid homopolymer	26099-09-2	72			
						Carbon black	1333-86-4	21			
						Nitrocellulose	9004-70-0	7			
			Marking 2	Painted resin	0.1	Rosin, polymd.	65997-05-9	90			
						Misc., not to declare	-	10			
			Solder 1	Lead-free solder	2.5	Tin	7440-31-5	81.8			
						Rosin	8050-09-7	13.4			
						Silver (Ag)	7440-22-4	3.5			
						Copper	7440-50-8	1			
						Tris-(2,3-dibromopropyl)amine	52434-90-9	0.05			
						Misc., not to declare	-	0.25			
			Solder 2	Lead-free solder	0.2	Tin	7440-31-5	95.28			
						Copper	7440-50-8	4.4			
						Nickel	7440-02-0	0.07			
						Germanium	7440-56-4	0.01			
						Misc., not to declare	-	0.24			
			Terminal	Copper alloys	10.5	Copper	7440-50-8	93.4			
						Tin	7440-31-5	6.5			
						Phosphorus	7723-14-0	0.1			
			Terminal plating 1	Nickel plating	0.09	Nickel	7440-02-0	100			
			Terminal plating 2	Tin plating	0.81	Tin	7440-31-5	98.6			
						Copper	7440-50-8	1.4			
			Wire	Copper (e.g. copper amount)	68.2	Copper	7440-50-8	100			
			Wire coating	PUR (Polyurethane)	3	Polyurethane resin	9009-54-5	100			

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	#FSLB2520-4R7M=P2	20	Adhesive	EP (Epoxy resin)	0.01	Epoxy resin	25068-38-6	79			C
						Calcium carbonate	471-34-1	20			
						Carbon black	1333-86-4	1			
			Drum core	Ceramics	4.06	Iron(III) oxide	1309-37-1	61			
						Zinc oxide; C.I. 7794	1314-13-2	22			
						Nickel oxide	1313-99-1	9			
						Copper oxide; Copp	1317-38-0	6			
						Bismuth oxide	1304-76-3	1			
						Misc., not to declare	-	1			
			Mold resin	EP (Epoxy resin)	9.38	Epoxy resin	29690-82-2	17			
						Silicon dioxide	7631-86-9	69.5			
						Phenolic resin	9003-35-4	8			
						Diantimony trioxide	1309-64-4	3			
						TBBA-epichlorhydr	40039-93-8	2			
						Carbon black	1333-86-4	0.5			
			Terminal	Copper (e.g. copper amount)	2.81	Copper	7440-50-8	100			
			Terminal plating 1	Nickel plating	0.06	Nickel	7440-02-0	100			
			Terminal plating 2	Tin plating	0.56	Tin	7440-31-5	98.6			
						Copper	7440-50-8	1.4			
			Wire	Copper (e.g. copper amount)	2.88	Copper	7440-50-8	100			
			Wire coating	PUR (Polyurethane)	0.24	Polyurethane resin	9009-54-5	100			

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

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

Composition Sheet(EU-RoHS Certificate)

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)*
	1225AS-H-1R5N=P2	41	Adhesive 1	EP (Epoxy resin)	0.2	Epoxy resin	9003-36-5	62			C
						Calcium carbonate	471-34-1	30.5			
						Titanium dioxide	13463-67-7	1.5			
						Cu-Phthalocyanin	147-14-8	1			
						Misc., not to declare	-	5			
			Adhesive 2	EP (Epoxy resin)	0.3	Epoxy resin	25068-38-6	57.5			
						Calcium carbonate	471-34-1	38.5			
						Titanium dioxide	13463-67-7	2.5			
						Cu-Phthalocyanin	147-14-8	1.5			
			E core	Ceramics	29.6	Iron(III) oxide	1309-37-1	65.3			
						Zinc oxide; C.I. 7794	1314-13-2	17.9			
						Nickel oxide	1313-99-1	14.2			
						Copper oxide; Copp	1317-38-0	2.5			
						Misc., not to declare	-	0.1			
			Marking	Painted resin	0.1	Phenolic resin	9003-35-4	70			
						Carbon black	1333-86-4	30			
			Terminal	Copper alloys	3.2	Copper	7440-50-8	93.4			
						Tin	7440-31-5	6.5			
						Phosphorus	7723-14-0	0.1			
			Terminal plating 1	Nickel plating	0.04	Nickel	7440-02-0	100			
			Terminal plating 2	Tin plating	0.36	Tin	7440-31-5	98.6			
						Copper	7440-50-8	1.4			
			Wire	Copper (e.g. copper amount)	6.89	Copper	7440-50-8	100			
			Wire coating 1	UP (Unsaturated polyester)	0.18	Polyester resin	68604-67-1	100			
			Wire coating 2	PA (Polyamide)	0.13	Polyamide polymer	68139-81-1	76			
						Phenolic resin	9003-35-4	24			

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

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Corp. QA Manager

Murata Americas

4/3/18

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G0N068(Y10)

Composition Sheet(EU-RoHS Certificate)

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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)*
	1225AS-H-2R2M=P2	41	Adhesive 1	EP (Epoxy resin)	0.2	Epoxy resin	9003-36-5	62			C
						Calcium carbonate	471-34-1	30.5			
						Titanium dioxide	13463-67-7	1.5			
						Cu-Phthalocyanin	147-14-8	1			
						Misc., not to declare	-	5			
			Adhesive 2	EP (Epoxy resin)	0.3	Epoxy resin	25068-38-6	57.5			
						Calcium carbonate	471-34-1	38.5			
						Titanium dioxide	13463-67-7	2.5			
						Cu-Phthalocyanin	147-14-8	1.5			
			E core	Ceramics	29.6	Iron(III) oxide	1309-37-1	65.3			
						Zinc oxide; C.I. 7794	1314-13-2	17.9			
						Nickel oxide	1313-99-1	14.2			
						Copper oxide; Copp	1317-38-0	2.5			
						Misc., not to declare	-	0.1			
			Marking	Painted resin	0.1	Phenolic resin	9003-35-4	70			
						Carbon black	1333-86-4	30			
			Terminal	Copper alloys	3.2	Copper	7440-50-8	93.4			
						Tin	7440-31-5	6.5			
						Phosphorus	7723-14-0	0.1			
			Terminal plating 1	Nickel plating	0.04	Nickel	7440-02-0	100			
			Terminal plating 2	Tin plating	0.36	Tin	7440-31-5	98.6			
						Copper	7440-50-8	1.4			
			Wire	Copper (e.g. copper amount)	6.89	Copper	7440-50-8	100			
			Wire coating 1	UP (Unsaturated polyester)	0.18	Polyester resin	68604-67-1	100			
			Wire coating 2	PA (Polyamide)	0.13	Polyamide polymer	68139-81-1	76			
						Phenolic resin	9003-35-4	24			

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

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	1225AS-H-4R7M=P2	41	Adhesive 1	EP (Epoxy resin)	0.2	Epoxy resin	9003-36-5	62			C
						Calcium carbonate	471-34-1	30.5			
						Titanium dioxide	13463-67-7	1.5			
						Cu-Phthalocyanin	147-14-8	1			
						Misc., not to declare	-	5			
			Adhesive 2	EP (Epoxy resin)	0.3	Epoxy resin	25068-38-6	57.5			
						Calcium carbonate	471-34-1	38.5			
						Titanium dioxide	13463-67-7	2.5			
						Cu-Phthalocyanin	147-14-8	1.5			
			E core	Ceramics	29.6	Iron(III) oxide	1309-37-1	65.3			
						Zinc oxide; C.I. 7794	1314-13-2	17.9			
						Nickel oxide	1313-99-1	14.2			
						Copper oxide; Copp	1317-38-0	2.5			
						Misc., not to declare	-	0.1			
			Marking	Painted resin	0.1	Phenolic resin	9003-35-4	70			
						Carbon black	1333-86-4	30			
			Terminal	Copper alloys	3.2	Copper	7440-50-8	93.4			
						Tin	7440-31-5	6.5			
						Phosphorus	7723-14-0	0.1			
			Terminal plating 1	Nickel plating	0.04	Nickel	7440-02-0	100			
			Terminal plating 2	Tin plating	0.36	Tin	7440-31-5	98.6			
						Copper	7440-50-8	1.4			
			Wire	Copper (e.g. copper amount)	6.89	Copper	7440-50-8	100			
			Wire coating 1	UP (Unsaturated polyester)	0.18	Polyester resin	68604-67-1	100			
			Wire coating 2	PA (Polyamide)	0.13	Polyamide polymer	68139-81-1	76			
						Phenolic resin	9003-35-4	24			

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	BLA31BD601SN4D	18.3	Outer electrode	Other special metals	0.4014	Silver (Ag)	7440-22-4	100			C
				Glass	0.0446	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	16.287	Iron(III) oxide	1309-37-1	56			
						Zinc oxide; C.I. 7794	1314-13-2	16			
						Nickel oxide	1313-99-1	17			
						Copper oxide; Copp	1317-38-0	7			
						Misc	-	1			
						Bismuth oxide	1304-76-3	1			
						Silica	7631-86-9	1			
						Tin dioxide	18282-10-5	1			
			Inner electrode	Other special metals	1.49	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0299	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0471	Tin	7440-31-5	100			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	BLM15AG221SN1J	1.21	Outer electrode	Other special metals	0.0738	Silver (Ag)	7440-22-4	100			C
				Glass	0.0082	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.24	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.023	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0227	Tin	7440-31-5	100			
			Ceramic element	Ceramics	0.8423	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	19			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	10			
						Manganese oxide	1317-35-7	1			
						Bismuth oxide	1304-76-3	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.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	BLM15AX102SN1D	1.16	Outer electrode	Other special metals	0.2367	Silver (Ag)	7440-22-4	100			C
				Glass	0.0263	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	0.5994	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	19			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copp	1317-38-0	9			
						Tin dioxide	18282-10-5	1			
						Misc	-	1			
						Manganese oxide	1317-35-7	1			
			Inner electrode	Other special metals	0.225	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0398	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0328	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.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	BLM15HB121SN1D	1.21	Outer electrode	Other special metals	0.0738	Silver (Ag)	7440-22-4	100			C
				Glass	0.0082	diboron trioxide; boron oxide	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.201	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.023	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0227	Tin	7440-31-5	100			
			Ceramic element	Ceramics	0.8813	Iron(III) oxide	1309-37-1	49			
						Zinc oxide; C.I. 7794	1314-13-2	9			
						Nickel oxide	1313-99-1	29			
						Copper oxide; Copper(I) oxide	1317-38-0	9			
						Cobalt oxide (Co3O4)	1308-06-1	1			
						Manganese oxide	1317-35-7	1			
						Bismuth oxide	1304-76-3	1			
						Misc	-	1			

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	BLM15PD121SN1D	1.21	Ceramic element	Ceramics	0.8179	Iron(III) oxide	1309-37-1	53			C
						Zinc oxide; C.I. 7794	1314-13-2	16			
						Nickel oxide	1313-99-1	17			
						Copper oxide; Copp	1317-38-0	10			
						Cobalt oxide (Co3O	1308-06-1	1			
						Manganese oxide	1317-35-7	1			
						Bismuth oxide	1304-76-3	1			
						Misc	-	1			
			Outer electrode	Other special metals	0.135	Silver (Ag)	7440-22-4	100			
				Glass	0.015	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.201	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0207	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0204	Tin	7440-31-5	100			

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	BLM18AG102SN1J	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			C
				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			

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	BLM18BB221SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			C
				Glass	0.0265	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	3.9059	Iron(III) oxide	1309-37-1	59			
						Zinc oxide; C.I. 7794	1314-13-2	1			
						Nickel oxide	1313-99-1	29			
						Copper oxide; Copp	1317-38-0	9			
						Cobalt oxide	1307-96-6	1			
						Bismuth oxide	1304-76-3	1			
			Inner electrode	Other special metals	0.351	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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	BLM18EG221SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			C
				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			

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	BLM18HB221SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			C
				Glass	0.0265	diboron trioxide; boron oxide	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.39	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			
			Ceramic element	Ceramics	3.8669	Iron(III) oxide	1309-37-1	49			
						Zinc oxide; C.I. 7794	1314-13-2	9			
						Nickel oxide	1313-99-1	29			
						Copper oxide; Copper(I) oxide	1317-38-0	9			
						Cobalt oxide (Co3O4)	1308-06-1	1			
						Manganese oxide	1317-35-7	1			
						Bismuth oxide	1304-76-3	1			
						Misc	-	1			

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	BLM18HK471SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			C
				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			

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

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

Composition Sheet(EU-RoHS Certificate)

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)*
	BLM18HK601SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			C
				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			

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

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

Composition Sheet(EU-RoHS Certificate)

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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)*
	BLM18KG221SN1D	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			C
				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) --> C ; RoHS Compliant, NG ; RoHS Not Compliant

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

Composition Sheet(EU-RoHS Certificate)

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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			C
				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) --> C ; RoHS Compliant, NG ; RoHS Not Compliant

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

Composition Sheet(EU-RoHS Certificate)

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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			C
				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			

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

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

Composition Sheet(EU-RoHS Certificate)

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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)*
	BLM21BD272SN1L	14.3	Outer electrode	Other special metals	0.99	Silver (Ag)	7440-22-4	100			C
				Glass	0.11	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Ceramic element	Ceramics	12.753	Iron(III) oxide	1309-37-1	56			
						Zinc oxide; C.I. 7794	1314-13-2	16			
						Nickel oxide	1313-99-1	17			
						Copper oxide; Copp	1317-38-0	7			
						Misc	-	1			
						Bismuth oxide	1304-76-3	1			
						Silica	7631-86-9	1			
						Tin dioxide	18282-10-5	1			
			Inner electrode	Other special metals	0.176	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.121	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.15	Tin	7440-31-5	100			

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

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

Composition Sheet(EU-RoHS Certificate)

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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)*
	BLM21PG220SH1D	9.8	Outer electrode	Other special metals	0.7146	Silver (Ag)	7440-22-4	100			C
				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) --> C ; RoHS Compliant, NG ; RoHS Not Compliant

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

Composition Sheet(EU-RoHS Certificate)

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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			C
				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) --> C ; RoHS Compliant, NG ; RoHS Not Compliant


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 Title: Corp. QA Manager
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Composition Sheet(EU-RoHS Certificate)

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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)*
	BLM31PG121SH1L	25.2	Outer electrode	Other special metals	1.917	Silver (Ag)	7440-22-4	100			C
				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			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	BLM31PG121SN1L	25.2	Outer electrode	Other special metals	1.917	Silver (Ag)	7440-22-4	100			C
				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			

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


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

Composition Sheet(EU-RoHS Certificate)

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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)*
	BLM41PG102SN1L	50.5	Outer electrode	Other special metals	3.159	Silver (Ag)	7440-22-4	100			C
				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) --> 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	BLM41PG181SN1L	50.5	Outer electrode	Other special metals	3.159	Silver (Ag)	7440-22-4	100			C
				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			

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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)*
	BLM41PG600SN1K	50.5	Outer electrode	Other special metals	3.159	Silver (Ag)	7440-22-4	100			C
				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) --> C ; RoHS Compliant, NG ; RoHS Not Compliant

Signature :

Donnie Boatright

Name:

Donnie Boatright

Title:

Corp. QA Manager

Company:

Murata Americas

Date (mm/dd/yy)

4/3/18

-Please contact our sales office, if you have any questions.

-We would appreciate it if you would not disclose this document to any 3rd party.

-This document is based on our best knowledge of the date of issue.

G0N068(Y10)

Composition Sheet(EU-RoHS Certificate)

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)*
	CES40906MDCB000RAB	108.633	Cap	unalloyed, low alloyed steel	24.6	Iron	7439-89-6	99			C
						Manganese	7439-96-5	1			
						Silver plating	7440-22-4	100			
						Copper plating	7440-50-8	100			
						Others (Cured resin or duro	7440-44-0	100			
			Magnet	Ceramics	21.7	Iron	7439-89-6	85			
						Strontium	1633-05-2	9			
						Misc.	-	6			
			Ferrite element	Other thermoplastics	6.5	Iron	7439-89-6	53			
						Yttrium	7440-65-5	34			
						Calcium	7440-70-2	5			
						Vanadium	7440-62-2	5			
						Misc.	-	3			
						Other special metals	7440-22-4	100			
						Glass	7631-86-9	100			
			I/O terminal	unalloyed, low alloyed steel	31.56	Iron	7439-89-6	99			
						Manganese	7439-96-5	1			
						Other thermoplastics	70679-92-4	100			
						Copper plating	7440-50-8	100			
						Silver plating	7440-22-4	100			
			Ceramic substrate	Ceramics	5.295	Alumina	1344-28-1	100			
						Other special metals	7440-22-4	100			
						Glass	1317-36-8	37.5	X	7(c)-I	
						Glass	7631-86-9	37.5			
						Ruthenium dioxide	12036-10-1	25			
						Nickel plating	7440-02-0	100			
						Gold plating	7440-57-5	100			
			Spacer	Other thermoplastics	0.6	Glass	65997-18-4	48			
						Epoxy	25928-94-3	43			
						Brominated flame r	JAMP-SN0015	9			
			Guide	Other thermoplastics	2.9	Liquid crystal polym	70679-92-4	100			
			Solder	Lead-free solder	3.9	Copper	7440-50-8	0.5			
						Tin	7440-31-5	96.5			
						Silver (Ag)	7440-22-4	3			

* EU-RoHS(C/NG) --> C ; RoHS Compliant, 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

Composition Sheet(EU-RoHS Certificate)

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)*
	CSTCE8M00G55Z-R0	11.03	Metal Cap	highly alloyed steel	3.52	Nickel	7440-02-0	42			C
						Iron	7439-89-6	57			
						Misc	-	1			
			Resonant Ceramic Elements	Ceramics	0.79	Lead titanium zircon	12626-81-2	100	X	7(c)-1	
			Inner Electrode	Other special metals	0.01	Nickel	7440-02-0	20			
						Chromium	7440-47-3	10			
						Copper	7440-50-8	10			
						Silver (Ag)	7440-22-4	60			
			Conductive Adhesive	EP (Epoxy resin)	0.03	Nickel	7440-02-0	10			
						Silver (Ag)	7440-22-4	75			
						Epoxy Resin	-	15			
			Insulating Material	EP (Epoxy resin)	0.04	Epoxy Resin	-	100			
			Adhesive	EP (Epoxy resin)	0.04	Epoxy Resin	-	100			
			Substrate	Ceramics	6	Magnesium Titanium	12032-30-3	100			
			Layer Electrode	Other special metals	0.07	Palladium	7440-05-3	100			
			Outer Electrode	Other special metals	0.2915	Silver (Ag)	7440-22-4	100			
			Outer Electrode Plating (Nickel)	Nickel plating	0.212	Nickel	7440-02-0	100			
			Outer Electrode Plating (Gold)	Gold plating	0.0265	Gold	7440-57-5	100			

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

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

Composition Sheet(EU-RoHS Certificate)

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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)*
	CSTCR4M00G53-R0	29.28	Metal Cap	highly alloyed steel	7.9	Nickel	7440-02-0	42			C
						Iron	7439-89-6	57			
						Misc	-	1			
			Resonant Ceramic Elements	Ceramics	4.11	Lead titanium zirconate	12626-81-2	100	X	7(c)-1	
			Inner Electrode1	Other special metals	0.02	Nickel	7440-02-0	20			
						Chromium	7440-47-3	10			
						Copper	7440-50-8	10			
						Silver (Ag)	7440-22-4	60			
			Ceramic Elements	Ceramics	1.87	Barium Titanium Oxide	12047-27-7	100			
			Inner Electrode2	Other special metals	0.02	Nickel	7440-02-0	20			
						Chromium	7440-47-3	10			
						Copper	7440-50-8	10			
						Silver (Ag)	7440-22-4	60			
			Conductive Adhesive	Other special metals	0.2	Silver (Ag)	7440-22-4	75			
						Nickel	7440-02-0	10			
						Epoxy Resin	-	15			
			Insulating Material	EP (Epoxy resin)	0.2	Epoxy Resin	-	100			
			Adhesive	EP (Epoxy resin)	0.15	Epoxy Resin	-	100			
			Substrate	Ceramics	14.18	Aluminum Oxide (Al ₂ O ₃)	1344-28-1	100			
			Outer Electrode	Other special metals	0.3465	Silver (Ag)	7440-22-4	100			
			Outer Electrode Plating (Nickel)	Nickel plating	0.252	Nickel	7440-02-0	100			
			Outer Electrode Plating (Gold)	Gold plating	0.0315	Gold	7440-57-5	100			

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

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 Title: Corp. QA Manager
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 Date (mm/dd/yy) 4/3/18

Composition Sheet(EU-RoHS Certificate)

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)*
	CSTCR4M00G55-R0	29.28	Metal Cap	highly alloyed steel	7.9	Nickel	7440-02-0	42			C
						Iron	7439-89-6	57			
						Misc	-	1			
			Resonant Ceramic Elements	Ceramics	4.11	Lead titanium zirconate	12626-81-2	100	X	7(c)-1	
			Inner Electrode1	Other special metals	0.02	Nickel	7440-02-0	20			
						Chromium	7440-47-3	10			
						Copper	7440-50-8	10			
						Silver (Ag)	7440-22-4	60			
			Ceramic Elements	Ceramics	1.87	Barium Titanium Oxide	12047-27-7	100			
			Inner Electrode2	Other special metals	0.02	Nickel	7440-02-0	20			
						Chromium	7440-47-3	10			
						Copper	7440-50-8	10			
						Silver (Ag)	7440-22-4	60			
			Conductive Adhesive	Other special metals	0.2	Silver (Ag)	7440-22-4	75			
						Nickel	7440-02-0	10			
						Epoxy Resin	-	15			
			Insulating Material	EP (Epoxy resin)	0.2	Epoxy Resin	-	100			
			Adhesive	EP (Epoxy resin)	0.15	Epoxy Resin	-	100			
			Substrate	Ceramics	14.18	Aluminum Oxide (Al ₂ O ₃)	1344-28-1	100			
			Outer Electrode	Other special metals	0.3465	Silver (Ag)	7440-22-4	100			
			Outer Electrode Plating (Nickel)	Nickel plating	0.252	Nickel	7440-02-0	100			
			Outer Electrode Plating (Gold)	Gold plating	0.0315	Gold	7440-57-5	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.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	DLW21SN371SQ2L	11.4	Magnet Wire	Copper (e.g. copper amount)	0.441	Copper	7440-50-8	100			C
			Magnet Wire Coating	Other thermoplastics	0.009	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.036	Silver (Ag)	7440-22-4	100			
				Glass	0.004	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.06	Nickel	7440-02-0	100			
			Ceramic element	Ceramics	10.69	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			
			Tin Plating Layer	Tin plating	0.08	Tin	7440-31-5	100			
			Epoxy Adhesive	EP (Epoxy resin)	0.08	Epoxy resin	25068-38-6	90			
						Misc	-	10			

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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)*
	DLW5BSM102SQ2L	298	Outer Electrode 1	Nickel and Nickel alloys	0.086	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.086	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Magnet Wire	Copper (e.g. copper amount)	10.6036	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.2164	Polyurethane resin	68400-67-9	100			
			Ceramic element	Ceramics	274.888	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			
			Solder	Lead-free solder	1.52	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Epoxy Adhesive	EP (Epoxy resin)	10.6	Epoxy resin	25068-38-6	55			
						Talc	14807-96-6	35			
						Silicon dioxide	7631-86-9	5			
						Misc	-	5			

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

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G0N068(Y10)

Composition Sheet(EU-RoHS Certificate)

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	DLW5BSM152SQ2L	298	Outer Electrode 1	Nickel and Nickel alloys	0.086	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.086	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Magnet Wire	Copper (e.g. copper amount)	10.6036	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.2164	Polyurethane resin	68400-67-9	100			
			Ceramic element	Ceramics	274.888	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			
			Solder	Lead-free solder	1.52	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Epoxy Adhesive	EP (Epoxy resin)	10.6	Epoxy resin	25068-38-6	55			
						Talc	14807-96-6	35			
						Silicon dioxide	7631-86-9	5			
						Misc	-	5			

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	DLW5BSM191SQ2L	298	Outer Electrode 1	Nickel and Nickel alloys	0.086	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.086	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Magnet Wire	Copper (e.g. copper amount)	10.6036	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.2164	Polyurethane resin	68400-67-9	100			
			Ceramic element	Ceramics	274.888	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			
			Solder	Lead-free solder	1.52	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Epoxy Adhesive	EP (Epoxy resin)	10.6	Epoxy resin	25068-38-6	55			
						Talc	14807-96-6	35			
						Silicon dioxide	7631-86-9	5			
						Misc	-	5			

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	DLW5BSM302SQ2L	298	Outer Electrode 1	Nickel and Nickel alloys	0.086	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.086	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Magnet Wire	Copper (e.g. copper amount)	10.6036	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.2164	Polyurethane resin	68400-67-9	100			
			Ceramic element	Ceramics	274.888	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			
			Solder	Lead-free solder	1.52	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Epoxy Adhesive	EP (Epoxy resin)	10.6	Epoxy resin	25068-38-6	55			
						Talc	14807-96-6	35			
						Silicon dioxide	7631-86-9	5			
						Misc	-	5			

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	ECASD40J107M015K00	132.51	Terminal	Copper alloys	29.09	Copper	7440-50-8	95			C
						Nickel	7440-02-0	1			
						Tin	7440-31-5	4			
			Anode+Dielectric Layer	Wrought aluminium alloys	14.6	Aluminum foil	7429-90-5	99			
						Aluminum oxide	1344-28-1	1			
			Cathode(Silver Layer)	Other special metals	11.88	Silver (Ag)	7440-22-4	89			
						Fluoropolymer Resin	27029-05-6	6			
						Acrylic resin	9003-01-4	5			
			Cathode(Carbon Layer)	Other inorganic metals	1.52	Carbon Black	1333-86-4	33			
						Acrylic resin	9003-01-4	67			
			Cathode(Conductive Polymer)	Other thermoplastics	5.12	Polyimide resin	25036-53-7	13			
						Silica	68611-44-9	1			
						Poly(3,4-Ethylenedi	155090-83-8	86			
			Molded Resin	EP (Epoxy resin)	70.3	Epoxy resin	25068-38-6	7			
						Phenolic resin	9003-35-4	7			
						Fused silica	60676-86-0	60			
						Carbon Black	1333-86-4	2			
						Metal hydroxide	21645-51-2	24			

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	LFL21915MTC1A027	10	Ceramic element	Ceramics	8.2852	Barium oxide, obtair	1304-28-5	18			C
						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			

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	LQG15HS1N0S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5	30			C
						Silica	7631-86-9	45			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	1			
						Misc	-	4			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Marking	Glass	0.009	Silica	7631-86-9	60			
						diboron trioxide; bor	1303-86-2	10			
						Copper chromite bla	68186-91-4	30			
				Ceramics	0.001	Barium oxide, obtair	1304-28-5	30			
						Silica	7631-86-9	43			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	5			
						Misc	-	2			

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	LQG15HS1N1S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5	30			C
						Silica	7631-86-9	45			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	1			
						Misc	-	4			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Marking	Glass	0.009	Silica	7631-86-9	60			
						diboron trioxide; bor	1303-86-2	10			
						Copper chromite bla	68186-91-4	30			
				Ceramics	0.001	Barium oxide, obtair	1304-28-5	30			
						Silica	7631-86-9	43			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	5			
						Misc	-	2			

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	LQG15HS27NJ02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5	30			C
						Silica	7631-86-9	45			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	1			
						Misc	-	4			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Marking	Glass	0.009	Silica	7631-86-9	60			
						diboron trioxide; bor	1303-86-2	10			
						Copper chromite bla	68186-91-4	30			
				Ceramics	0.001	Barium oxide, obtair	1304-28-5	30			
						Silica	7631-86-9	43			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	5			
						Misc	-	2			

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	LQG15HS2N0S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5	30			C
						Silica	7631-86-9	45			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	1			
						Misc	-	4			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Marking	Glass	0.009	Silica	7631-86-9	60			
						diboron trioxide; bor	1303-86-2	10			
						Copper chromite bla	68186-91-4	30			
				Ceramics	0.001	Barium oxide, obtair	1304-28-5	30			
						Silica	7631-86-9	43			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	5			
						Misc	-	2			

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	LQG15HS2N2C02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5	30			C
						Silica	7631-86-9	45			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	1			
						Misc	-	4			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Marking	Glass	0.009	Silica	7631-86-9	60			
						diboron trioxide; bor	1303-86-2	10			
						Copper chromite bla	68186-91-4	30			
				Ceramics	0.001	Barium oxide, obtair	1304-28-5	30			
						Silica	7631-86-9	43			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	5			
						Misc	-	2			

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


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

Composition Sheet(EU-RoHS Certificate)

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)*
	LQG15HS3N3S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5	30			C
						Silica	7631-86-9	45			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	1			
						Misc	-	4			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Marking	Glass	0.009	Silica	7631-86-9	60			
						diboron trioxide; bor	1303-86-2	10			
						Copper chromite bla	68186-91-4	30			
				Ceramics	0.001	Barium oxide, obtair	1304-28-5	30			
						Silica	7631-86-9	43			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	5			
						Misc	-	2			

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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)*
	LQG15HS5N1S02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtain	1304-28-5	30			C
						Silica	7631-86-9	45			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	1			
						Misc	-	4			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Marking	Glass	0.009	Silica	7631-86-9	60			
						diboron trioxide; bor	1303-86-2	10			
						Copper chromite bla	68186-91-4	30			
				Ceramics	0.001	Barium oxide, obtain	1304-28-5	30			
						Silica	7631-86-9	43			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	5			
						Misc	-	2			

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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)*
	LQG15HS9N1J02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5	30			C
						Silica	7631-86-9	45			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	1			
						Misc	-	4			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Marking	Glass	0.009	Silica	7631-86-9	60			
						diboron trioxide; bor	1303-86-2	10			
						Copper chromite bla	68186-91-4	30			
				Ceramics	0.001	Barium oxide, obtair	1304-28-5	30			
						Silica	7631-86-9	43			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	5			
						Misc	-	2			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	LQG15HSR10J02D	1	Ceramic element	Ceramics	0.57	Barium oxide, obtair	1304-28-5	30			C
						Silica	7631-86-9	45			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	1			
						Misc	-	4			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.27	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.04	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.05	Tin	7440-31-5	100			
			Marking	Glass	0.009	Silica	7631-86-9	60			
						diboron trioxide; bor	1303-86-2	10			
						Copper chromite bla	68186-91-4	30			
				Ceramics	0.001	Barium oxide, obtair	1304-28-5	30			
						Silica	7631-86-9	43			
						Aluminium oxide	1344-28-1	20			
						diboron trioxide; bor	1303-86-2	5			
						Misc	-	2			

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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)*
	LQH31CN1R0M03L	29.3	Outer Electrode 1	Nickel and Nickel alloys	0.028	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.028	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Ceramic element	Ceramics	24.403	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			
			Magnet Wire	Copper (e.g. copper amount)	3.6456	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.0744	Polyurethane resin	68400-67-9	100			
			Solder	Lead-free solder	0.511	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Coating Resin	EP (Epoxy resin)	0.61	Epoxy resin	25068-38-6	30			
						Silica, vitreous	60676-86-0	65			
						Misc	-	5			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	LQH32CN470K23L	59.6	Outer Electrode 1	Nickel and Nickel alloys	0.0444	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.0444	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Ceramic element	Ceramics	44.9812	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			
			Magnet Wire	Copper (e.g. copper amount)	10.7016	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.2184	Polyurethane resin	68400-67-9	100			
			Solder	Lead-free solder	0.96	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Coating Resin	EP (Epoxy resin)	2.65	Epoxy resin	25068-38-6	70			
						Silica, vitreous	60676-86-0	25			
						Misc	-	5			

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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)*
	LQH32CN4R7M33K	59.6	Outer Electrode 1	Nickel and Nickel alloys	0.0444	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.0444	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Ceramic element	Ceramics	44.9812	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			
			Magnet Wire	Copper (e.g. copper amount)	10.7016	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.2184	Polyurethane resin	68400-67-9	100			
			Solder	Lead-free solder	0.96	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Coating Resin	EP (Epoxy resin)	2.65	Epoxy resin	25068-38-6	70			
						Silica, vitreous	60676-86-0	25			
						Misc	-	5			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	LQH43CN101K03L	128	Outer Electrode 1	Nickel and Nickel alloys	0.071	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.071	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Ceramic element	Ceramics	98.178	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			
			Magnet Wire	Copper (e.g. copper amount)	25.382	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.518	Polyurethane resin	68400-67-9	100			
			Solder	Lead-free solder	2.6	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Coating Resin	EP (Epoxy resin)	1.18	Epoxy resin	25068-38-6	70			
						Silica, vitreous	60676-86-0	25			
						Misc	-	5			

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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)*
	LQH43CN220K03L	128	Outer Electrode 1	Nickel and Nickel alloys	0.071	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.071	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Ceramic element	Ceramics	98.178	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			
			Magnet Wire	Copper (e.g. copper amount)	25.382	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.518	Polyurethane resin	68400-67-9	100			
			Solder	Lead-free solder	2.6	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Coating Resin	EP (Epoxy resin)	1.18	Epoxy resin	25068-38-6	70			
						Silica, vitreous	60676-86-0	25			
						Misc	-	5			

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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)*
	LQH43MN680K03L	128	Outer Electrode 1	Nickel and Nickel alloys	0.071	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.071	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Ceramic element	Ceramics	98.178	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			
			Magnet Wire	Copper (e.g. copper amount)	25.382	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	0.518	Polyurethane resin	68400-67-9	100			
			Solder	Lead-free solder	2.6	Tin	7440-31-5	95			
						Copper	7440-50-8	5			
			Coating Resin	EP (Epoxy resin)	1.18	Epoxy resin	25068-38-6	70			
						Silica, vitreous	60676-86-0	25			
						Misc	-	5			

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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)*
	LQH55DN150M03L	477	Outer Electrode 1	Nickel and Nickel alloys	0.1735	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.1735	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Ceramic element	Ceramics	353.653	Iron(III) oxide	1309-37-1	57			
						Zinc oxide; C.I. 7794	1314-13-2	27			
						Nickel oxide	1313-99-1	8			
						Copper oxide; Copp	1317-38-0	8			
			Magnet Wire	Copper (e.g. copper amount)	93.1	Copper	7440-50-8	100			
			Magnet Wire Coating	PUR (Polyurethane)	1.9	Polyurethane resin	68400-67-9	100			
			Solder	Lead-free solder	28	Tin	7440-31-5	95			
						Copper	7440-50-8	5			

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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)*
	LQP03TN12NH02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

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	LQP03TN15NH02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

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Composition Sheet(EU-RoHS Certificate)

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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)*
	LQP03TN1N0B02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

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


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

Composition Sheet(EU-RoHS Certificate)

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)*
	LQP03TN1N8B02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

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

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 Name: Donnie Boatright
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Composition Sheet(EU-RoHS Certificate)

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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)*
	LQP03TN2N2B02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

* EU-RoHS(C/NG) --> C ; RoHS Compliant, 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

Composition Sheet(EU-RoHS Certificate)

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)*
	LQP03TN3N3B02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

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

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 Name: Donnie Boatright
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Composition Sheet(EU-RoHS Certificate)

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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)*
	LQP03TN68NJ02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

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


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Composition Sheet(EU-RoHS Certificate)

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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)*
	LQP03TN6N8H02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

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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)*
	LQP03TN91NJ02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

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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)*
	LQP03TNR12J02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	LQP03TNR15H02D	0.175	Outer electrode	Other special metals	0.0243	Silver (Ag)	7440-22-4	100			C
				Glass	0.0027	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.0159	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0077	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0094	Tin	7440-31-5	100			
			Coating	Glass	0.0055	diboron trioxide; bor	1303-86-2	15			
						Silica	7631-86-9	70			
						Cobalt oxide	1307-96-6	5			
						Aluminum oxide	1344-28-1	5			
						Misc	-	5			
			Insulation Layer	Glass	0.1095	diboron trioxide; bor	1303-86-2	10			
						Silica	7631-86-9	50			
						Aluminium Oxide	1344-28-1	40			

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


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 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)*
	LQP15MN12NG02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0	93			
						Misc	-	7			
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0	100			
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7	100			
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5	100			
			Substrate	Glass	0.3303	Cristobalite	14464-46-1	3			
						Aluminium Oxide	1344-28-1	96			
						Misc	-	1			

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

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 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)*
	LQP15MN3N3B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0	93			
						Misc	-	7			
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0	100			
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7	100			
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5	100			
			Substrate	Glass	0.3303	Cristobalite	14464-46-1	3			
						Aluminium Oxide	1344-28-1	96			
						Misc	-	1			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	LQP15MN3N9B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0	93			
						Misc	-	7			
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0	100			
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7	100			
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5	100			
			Substrate	Glass	0.3303	Cristobalite	14464-46-1	3			
						Aluminium Oxide	1344-28-1	96			
						Misc	-	1			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	LQP15MN4N7B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0	93			
						Misc	-	7			
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0	100			
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7	100			
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5	100			
			Substrate	Glass	0.3303	Cristobalite	14464-46-1	3			
						Aluminium Oxide	1344-28-1	96			
						Misc	-	1			

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

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 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)*
	LQP15MN5N1B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0	93			
						Misc	-	7			
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0	100			
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7	100			
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5	100			
			Substrate	Glass	0.3303	Cristobalite	14464-46-1	3			
						Aluminium Oxide	1344-28-1	96			
						Misc	-	1			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	LQP15MN5N6B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0	93			
						Misc	-	7			
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0	100			
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7	100			
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5	100			
			Substrate	Glass	0.3303	Cristobalite	14464-46-1	3			
						Aluminium Oxide	1344-28-1	96			
						Misc	-	1			

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Composition Sheet(EU-RoHS Certificate)

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)*
	LQP15MN6N8B02D	0.63	Outer Electrode 1	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	93			C
						Misc	-	7			
			Outer Electrode 2	Nickel and Nickel alloys	0.0006	Nickel	7440-02-0	70			
						Copper	7440-50-8	30			
			Inner Electrode 1	Nickel and Nickel alloys	0.0008	Nickel	7440-02-0	93			
						Misc	-	7			
			Inner electrode 2	Other special metals	0.052	Silver (Ag)	7440-22-4	100			
			Nickel Plating Layer	Nickel plating	0.0111	Nickel	7440-02-0	100			
			Insulation Layer	Others (Cured resin or duro	0.22	Polyimide	25036-53-7	100			
			Tin Plating Layer	Tin plating	0.0146	Tin	7440-31-5	100			
			Substrate	Glass	0.3303	Cristobalite	14464-46-1	3			
						Aluminium Oxide	1344-28-1	96			
						Misc	-	1			

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


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

Composition Sheet(EU-RoHS Certificate)

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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)*
	LQW15AN12NG00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.0392	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4	100			
				Glass	0.0017	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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

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Composition Sheet(EU-RoHS Certificate)

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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)*
	LQW15AN1N5B00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.0392	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4	100			
				Glass	0.0017	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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Donnie Boatright

Donnie Boatright

Corp. QA Manager

Murata Americas

4/3/18

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G0N068(Y10)

Composition Sheet(EU-RoHS Certificate)

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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)*
	LQW15AN22NG00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.0392	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4	100			
				Glass	0.0017	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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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)*
	LQW15AN33NG00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.0392	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4	100			
				Glass	0.0017	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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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)*
	LQW15AN56NG00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.0392	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4	100			
				Glass	0.0017	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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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)*
	LQW15AN8N2G00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.0392	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4	100			
				Glass	0.0017	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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Murata Americas

4/3/18

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G0N068(Y10)

Composition Sheet(EU-RoHS Certificate)

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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)*
	LQW15ANR10J00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.0392	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4	100			
				Glass	0.0017	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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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)*
	LQW15ANR12J00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.0392	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4	100			
				Glass	0.0017	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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	LQW15ANR12J00D	0.76	Ceramic element	Ceramics	0.615	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.013	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.0392	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0008	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.0153	Silver (Ag)	7440-22-4	100			
				Glass	0.0017	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.009	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.031	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.035	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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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)*
	LQW18AN33NJ00D	2.6	Ceramic element	Ceramics	2.1	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.054	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.1372	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0028	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.108	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.12	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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	LQW18ANR27G00D	2.6	Ceramic element	Ceramics	2.1	Aluminum oxide	1344-28-1	80			C
						Silicon dioxide	7631-86-9	10			
						Calcium oxide	1305-78-8	5			
						Misc	-	5			
			Copper Plating Layer	Copper plating	0.054	Copper	7440-50-8	100			
			Magnet Wire	Copper (e.g. copper amount)	0.1372	Copper	7440-50-8	100			
			Magnet Wire Coating	Other thermoplastics	0.0028	Polyester imide	68604-67-1	100			
			Outer electrode	Other special metals	0.054	Silver (Ag)	7440-22-4	100			
				Glass	0.006	diboron trioxide; bor	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Nickel Plating Layer	Nickel plating	0.018	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.108	Tin	7440-31-5	100			
			Coating	EP (Epoxy resin)	0.12	Epoxy resin	54847-34-6	60			
						Talc	14807-96-6	30			
						Misc	-	10			

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	NCP18XH103F03RB	4.6381	Ceramic element	Ceramics	4	Manganese oxide	1317-35-7	50			C
						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; boron	1303-86-2	26			
						silicon dioxide	7631-86-9	74			

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	NCP18XH103J03RB	4.6381	Ceramic element	Ceramics	4	Manganese oxide	1317-35-7	50			C
						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			

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

Composition Sheet(EU-RoHS Certificate)

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)*
	NFA21SL307X1A45L	7.1	Ceramic element	Ceramics	6.264	Titanium dioxide	13463-67-7	40			C
						Barium oxide, obtain	1304-28-5	10			
						Copper oxide; Copp	1317-38-0	1			
						Neodymium oxide	1313-97-9	49			
			Outer electrode	Copper alloys	0.4212	Copper	7440-50-8	100			
				Glass	0.0468	diboron trioxide; bor	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.027	Nickel	7440-02-0	100			
			Inner electrode	Copper alloys	0.293	Copper	7440-50-8	100			
			Tin Plating Layer	Tin plating	0.048	Tin	7440-31-5	100			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	NFE31PT101C1E9L	33.8	Outer electrode of ends	Nickel plating	0.126	Nickel	7440-02-0	100			C
				Silver plating	0.21	Silver (Ag)	7440-22-4	100			
				highly alloyed steel	8.064	Nickel	7440-02-0	42			
						Fe	1309-37-1	55			
						Mn	7439-96-5	1			
						Cobalt and its comp	7440-48-4	1			
						Misc	-	1			
			Nickel Plating Layer	Nickel plating	0.083	Nickel	7440-02-0	95			
						Phosphorus	7723-14-0	5			
			Ceramic element 2	Ceramics	9.81	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			
						Cobalt oxide (Co3O	1308-06-1	1			
			Tin Plating Layer	Tin plating	0.553	Tin	7440-31-5	100			
			Inner electrode	Copper alloys	4.97	Copper	7440-50-8	92			
						Tin	7440-31-5	8			
			Ceramic element 1	Ceramics	9.984	Barium oxide, obtair	1304-28-5	58			
						Titanium dioxide	13463-67-7	29			
						Bismuth oxide	1304-76-3	5			
						Misc	-	1			
						Silica	7631-86-9	1			
						Tin dioxide	18282-10-5	5			
						Manganese(II) oxide	1344-43-0	1			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	NFE61HT330U2A9L	61.7	Outer electrode of ends	Nickel plating	0.129	Nickel	7440-02-0	100			C
				Silver plating	0.215	Silver (Ag)	7440-22-4	100			
				highly alloyed steel	8.256	Nickel	7440-02-0	42			
						Fe	1309-37-1	55			
						Mn	7439-96-5	1			
						Cobalt and its comp	7440-48-4	1			
						Misc	-	1			
			Nickel Plating Layer	Nickel plating	0.22	Nickel	7440-02-0	95			
						Phosphorus	7723-14-0	5			
			Ceramic element 2	Ceramics	19.7	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			
						Cobalt oxide (Co3O	1308-06-1	1			
			Tin Plating Layer	Tin plating	1.46	Tin	7440-31-5	100			
			Inner electrode	Copper alloys	9.8	Copper	7440-50-8	92			
						Tin	7440-31-5	8			
			Ceramic element 1	Ceramics	21.92	Titanium dioxide	13463-67-7	40			
						Calcium oxide	1305-78-8	50			
						Misc	-	10			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	NFE61PT361B1H9L	61.7	Outer electrode of ends	Nickel plating	0.129	Nickel	7440-02-0	100			C
				Silver plating	0.215	Silver (Ag)	7440-22-4	100			
				highly alloyed steel	8.256	Nickel	7440-02-0	42			
						Fe	1309-37-1	55			
						Mn	7439-96-5	1			
						Cobalt and its comp	7440-48-4	1			
						Misc	-	1			
			Nickel Plating Layer	Nickel plating	0.22	Nickel	7440-02-0	95			
						Phosphorus	7723-14-0	5			
			Ceramic element 2	Ceramics	19.7	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			
						Cobalt oxide (Co3O	1308-06-1	1			
			Tin Plating Layer	Tin plating	1.46	Tin	7440-31-5	100			
			Inner electrode	Copper alloys	9.8	Copper	7440-50-8	92			
						Tin	7440-31-5	8			
			Ceramic element 1	Ceramics	21.92	Barium oxide, obtair	1304-28-5	58			
						Titanium dioxide	13463-67-7	29			
						Bismuth oxide	1304-76-3	5			
						Misc	-	1			
						Silica	7631-86-9	1			
						Tin dioxide	18282-10-5	5			
						Manganese(II) oxide	1344-43-0	1			

* 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 (mg)	Substance Name	CAS No.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	NFE61PT681B1H9L	61.7	Outer electrode of ends	Nickel plating	0.129	Nickel	7440-02-0	100			C
				Silver plating	0.215	Silver (Ag)	7440-22-4	100			
				highly alloyed steel	8.256	Nickel	7440-02-0	42			
						Fe	1309-37-1	55			
						Mn	7439-96-5	1			
						Cobalt and its comp	7440-48-4	1			
						Misc	-	1			
			Nickel Plating Layer	Nickel plating	0.22	Nickel	7440-02-0	95			
						Phosphorus	7723-14-0	5			
			Ceramic element 2	Ceramics	19.7	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			
						Cobalt oxide (Co3O	1308-06-1	1			
			Tin Plating Layer	Tin plating	1.46	Tin	7440-31-5	100			
			Inner electrode	Copper alloys	9.8	Copper	7440-50-8	92			
						Tin	7440-31-5	8			
			Ceramic element 1	Ceramics	21.92	Titanium dioxide	13463-67-7	20			
						Barium oxide, obtair	1304-28-5	65			
						Tin dioxide	18282-10-5	5			
						Bismuth oxide	1304-76-3	5			
						Misc	-	5			

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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			C
						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			

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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)*
	NFM21CC471R1H3D	12	Ceramic element	Ceramics	9.25	Barium oxide, obtair	1304-28-5	60			C
						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			

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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)*
	SAFEB1G57KB0F00R15	3.2	BumpPad	Titanium and titanium alloys	0.08	Titanium	7440-32-6	51			C
			Bump	Gold	0.32	Aluminium	7429-90-5	49			
						Gold	7440-57-5	99.98			
						Calcium	7440-70-2	0.01			
						Y2O3	1314-36-9	0.01			
			Electrode	Cast aluminium alloys	0.016	Aluminium	7429-90-5	87			
						Copper	7440-50-8	9			
						SiO2	7631-86-9	2			
						Titanium	7440-32-6	2			
			PackageResin	EP (Epoxy resin)	0.4352	6-glycidylloxynaph	27610-48-6	15			
						BisphenolA epoxy	25068-38-6	2			
						PMMA	9011-14-7	9.8			
						Silica	7631-86-9	56.6			
						Phenol, styrenated	61788-44-1	16			
						Bismuth hydroxide	10361-43-0	0.2			
						Bismuth hydroxide	1304-85-4	0.2			
						Carbon black	1333-86-4	0.2			
			Package	Cast aluminium alloys	1.6183	Al2O3	1344-28-1	75.61			
						SiO2	7631-86-9	2.89			
						CaO	1305-78-8	0.27			
						MgO	1309-48-4	0.4			
						Cr2O3	1308-38-9	3.1			
						TiO2	13463-67-7	0.8			
						Tungsten	7440-33-7	16.42			
						Molybden	7439-98-7	0.51			
				Nickel plating	0.0347	Nickel	7440-02-0	80			
						Cobalt and its comp	7440-48-4	20			
				Gold plating	0.0142	Gold	7440-57-5	100			
			Resin	Other thermoplastics	0.0096	Polyimide	25036-53-7	100			
			Wafer[LT]	Ceramics	0.672	LiTaO3	12031-66-2	100			

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	SCA100T-D02-1	1128.9	SCA1000 Housing	Copper alloys	187.5	Copper	7440-50-8	97.2925			C
						Iron	7439-89-6	2.35			
						zinc	7440-66-6	0.125			
						Manganese	7439-96-5	0.05			
						Phosphorus	7723-14-0	0.0825			
						Misc., not to declare	-	0.1			
				Nickel plating	3.4	Nickel	7440-02-0	99.589			
						Carbon	7440-44-0	0.4			
						Sulphur	7704-34-9	0.015			
				Gold plating	1	Gold	7440-57-5	99.945			
						Carbon	7440-44-0	0.005			
						Nitrogen	7727-37-9	0.05			
				filled Thermoplastics	618	LCP	-	68			
						GF-Fibre	-	32			
			Silicone gel fill	Others (Cured resin or duro	75	Silicone rubber	63394-02-5	97.5			
						Misc., not to declare	-	2.5			
			Die attach	Others (Cured resin or duro	6	Aluminium oxide	1344-28-1	48.6923			
						Zinc oxide; C.I. 7794	1314-13-2	14.6514			
						Glass spheres	-	9.0769			
						Misc., not to declare	-	2.5385			
						Polydimethylsiloxan	63394-02-5	25.0769			
			Bond wires	Gold	1	Gold	7440-57-5	99.99			
						Misc., not to declare	-	1			
			ASIC M76001B	Other nonferrous metals	12	Silicon	7440-21-3	99.6			
						Aluminium (metal)	7429-90-5	0.1			
						Silicon-nitride	12033-60-2	0.1			
						Silica, amorphous	112926-00-8	0.2			
			Small Element	Other nonferrous metals	54	Silicon	7440-21-3	100			
				Glass	5.4	Silica, Crystalline	14808-60-7	70			
						Aluminium oxide	1344-28-1	15			
						Disodium-oxide	1313-59-3	6			
						Misc., not to declare	-	9			
				Gold vapor deposition film	0.6	Gold	7440-57-5	46			
						Aluminium (metal)	7429-90-5	46			
						Misc., not to declare	-	8			
			SCA10x0 Lid	highly alloyed steel	165	Nickel	7440-02-0	7			
						Carbon	7440-44-0	0.075			
						Silicon	7440-21-3	0.5			
						Manganese	7439-96-5	1			
						Phosphorus	7723-14-0	0.0225			
						Sulphur	7704-34-9	0.015			
						Chromium	7440-47-3	17			
						Iron	7439-89-6	74.3875			

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	SCA103T-D04-1	1130	SCA1000 Housing	Copper alloys	187.5	Copper	7440-50-8	97.2925			C
						Iron	7439-89-6	2.35			
						zinc	7440-66-6	0.125			
						Manganese	7439-96-5	0.05			
						Phosphorus	7723-14-0	0.0825			
						Misc., not to declare	-	0.1			
				Nickel plating	3.4	Nickel	7440-02-0	99.589			
						Carbon	7440-44-0	0.4			
						Sulphur	7704-34-9	0.015			
				Gold plating	1	Gold	7440-57-5	99.945			
						Carbon	7440-44-0	0.005			
						Nitrogen	7727-37-9	0.05			
				filled Thermoplastics	618	LCP	-	68			
						GF-Fibre	-	32			
			Silicone gel fill	Others (Cured resin or duro	75	Silicone rubber	63394-02-5	97.5			
						Misc., not to declare	-	2.5			
			Die attach	Others (Cured resin or duro	6	Aluminium oxide	1344-28-1	48.6923			
						Zinc oxide; C.I. 7794	1314-13-2	14.6514			
						Glass spheres	-	9.0769			
						Misc., not to declare	-	2.5385			
						Polydimethylsiloxan	63394-02-5	25.0769			
			Bond wires	Gold	1	Gold	7440-57-5	99.99			
						Misc., not to declare	-	1			
			ASIC M76001B	Other nonferrous metals	12	Silicon	7440-21-3	99.6			
						Aluminium (metal)	7429-90-5	0.1			
						Silicon-nitride	12033-60-2	0.1			
						Silica, amorphous	112926-00-8	0.2			
			Small Element	Other nonferrous metals	54	Silicon	7440-21-3	100			
				Glass	5.4	Silica, Crystalline	14808-60-7	70			
						Aluminium oxide	1344-28-1	15			
						Disodium-oxide	1313-59-3	6			
						Misc., not to declare	-	9			
				Gold vapor deposition film	0.6	Gold	7440-57-5	46			
						Aluminium (metal)	7429-90-5	46			
						Misc., not to declare	-	8			
			SCA10x0 Lid	highly alloyed steel	165	Nickel	7440-02-0	7			
						Carbon	7440-44-0	0.075			
						Silicon	7440-21-3	0.5			
						Manganese	7439-96-5	1			
						Phosphorus	7723-14-0	0.0225			
						Sulphur	7704-34-9	0.015			
						Chromium	7440-47-3	17			
						Iron	7439-89-6	74.3875			

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	SCA103T-D04-6	1130	SCA1000 Housing	Copper alloys	187.5	Copper	7440-50-8	97.2925			C
						Iron	7439-89-6	2.35			
						zinc	7440-66-6	0.125			
						Manganese	7439-96-5	0.05			
						Phosphorus	7723-14-0	0.0825			
						Misc., not to declare	-	0.1			
				Nickel plating	3.4	Nickel	7440-02-0	99.589			
						Carbon	7440-44-0	0.4			
						Sulphur	7704-34-9	0.015			
				Gold plating	1	Gold	7440-57-5	99.945			
						Carbon	7440-44-0	0.005			
						Nitrogen	7727-37-9	0.05			
				filled Thermoplastics	618	LCP	-	68			
						GF-Fibre	-	32			
			Silicone gel fill	Others (Cured resin or duro	75	Silicone rubber	63394-02-5	97.5			
						Misc., not to declare	-	2.5			
			Die attach	Others (Cured resin or duro	6	Aluminium oxide	1344-28-1	48.6923			
						Zinc oxide; C.I. 7794	1314-13-2	14.6514			
						Glass spheres	-	9.0769			
						Misc., not to declare	-	2.5385			
						Polydimethylsiloxan	63394-02-5	25.0769			
			Bond wires	Gold	1	Gold	7440-57-5	99.99			
						Misc., not to declare	-	1			
			ASIC M76001B	Other nonferrous metals	12	Silicon	7440-21-3	99.6			
						Aluminium (metal)	7429-90-5	0.1			
						Silicon-nitride	12033-60-2	0.1			
						Silica, amorphous	112926-00-8	0.2			
			Small Element	Other nonferrous metals	54	Silicon	7440-21-3	100			
				Glass	5.4	Silica, Crystalline	14808-60-7	70			
						Aluminium oxide	1344-28-1	15			
						Disodium-oxide	1313-59-3	6			
						Misc., not to declare	-	9			
				Gold vapor deposition film	0.6	Gold	7440-57-5	46			
						Aluminium (metal)	7429-90-5	46			
						Misc., not to declare	-	8			
			SCA10x0 Lid	highly alloyed steel	165	Nickel	7440-02-0	7			
						Carbon	7440-44-0	0.075			
						Silicon	7440-21-3	0.5			
						Manganese	7439-96-5	1			
						Phosphorus	7723-14-0	0.0225			
						Sulphur	7704-34-9	0.015			
						Chromium	7440-47-3	17			
						Iron	7439-89-6	74.3875			

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Composition Sheet(EU-RoHS Certificate)

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)*
	SCA3100-D04-1	315	ADP Housing	Other thermoplastics	149.5	LCP	-	68			C
						GF-Fibre	-	32			
				Copper alloys	22.5	Copper	7440-50-8	97.3275			
						Iron	7439-89-6	2.35			
						Zinc	7440-66-6	0.125			
						Phosphorus	7723-14-0	0.0825			
						Lead	7439-92-1	0.015	X	Below threshold	
						Misc	-	0.1			
				Nickel plating	0.4	Nickel	7440-02-0	99.825			
						Sulphur	7704-34-9	0.075			
						Nitrogen	7727-37-9	0.05			
						Carbon	7440-44-0	0.05			
				Gold plating	0.12	Gold	7440-57-5	99.945			
						Nitrogen	7727-37-9	0.05			
						Carbon	7440-44-0	0.005			
			ASIC SCI023-v3	Other inorganic metals	7.63	Silicon	7440-21-3	98.95			
						Silica, amorphous	112926-00-8	0.65			
						Aluminium	7429-90-5	0.15			
						Silicon-nitride	12033-60-2	0.15			
						Misc	-	0.1			
			Triax-G Al-pads	Other inorganic metals	13.9	Silicon	7440-21-3	100			
				Glass	4.9	Silica, Crystalline	14808-60-7	70			
						Aluminium oxide	1344-28-1	15			
						Disodium-oxide	1313-59-3	6			
						Misc	-	9			
				Cast aluminium alloys	0.03	Aluminium	7429-90-5	75.425			
						Titanium	7440-32-6	18.5			
						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			
						Sulphur	7704-34-9	0.015			
			Silicone gel fill	Others (Cured resin or duro)	36	Silicone rubber	63394-02-5	98			
						Misc	-	2			
			Sensor die attach	Others (Cured resin or duro)	3	Polydimethylsiloxan	63394-02-5	85			
						Silica, ((ethenyldime	68988-89-6	15			
			ASIC die attach	Others (Cured resin or duro)	3	Silica, vitreous	60676-86-0	80			
						Epoxy Resin	-	16			
						Misc	-	4			
			Bond wire	Gold	1.5	Gold	7440-57-5	99.99			
						Misc	-	0.01			
			SCA1000 Spring	highly alloyed steel	2.3	Iron	7439-89-6	71.636			
						Chromium	7440-47-3	18.13			
						Nickel	7440-02-0	8.29			
						Manganese	7439-96-5	0.86			
						Molybdenum	7439-98-7	0.4			
						Silicon	7440-21-3	0.58			
						Carbon	7440-44-0	0.075			
						Phosphorus	7723-14-0	0.028			
						Sulphur	7704-34-9	0.001			

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-Please contact our sales office, if you have any questions.
 -We would appreciate it if you would not disclose this document to any 3rd party.
 -This document is based on our best knowledge of the date of issue.
 G0N068(Y10)

Composition Sheet(EU-RoHS Certificate)

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)*
	SCC1300-D02-6	1239.968	Cobra housing	Other thermoplastics	443	LCP	--	68			C
						GF-Fibre	--	32			
				Copper alloys	325	Copper	7440-50-8	97.3275			
						Iron	7439-89-6	2.35			
						Zinc	7440-66-6	0.125			
						Phosphorus	7723-14-0	0.0825			
						Lead	7439-92-1	0.015	X	Below threshold	
						Misc	--	0.1			
			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			
						Nitrogen	7727-37-9	0.05			
						Carbon	7440-44-0	0.005			
			ASIC SCI023-v3	Other inorganic metals	7.63	Silicon	7440-21-3	98.95			
						Silica, amorphous	112926-00-8	0.65			
						Aluminium	7429-90-5	0.15			
						Silicon-nitride	12033-60-2	0.15			
						Misc	--	0.1			
			Triax-G Al-pads	Other inorganic metals	13.9	Silicon	7440-21-3	100			
				Glass	4.9	Glass without declar	--	100			
				Cast aluminium alloys	0.03	Aluminium	7429-90-5	75.5			
						Titanium	7440-32-6	18.5			
						Misc	--	6			
			Cobra lid	highly alloyed steel	204	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			
						Sulphur	7704-34-9	0.015			
			Silicone gel fill	Others (Cured resin or duro	160	VMQ	--	98			
						Further Additives,nc	--	2			
			Sensor die attach	Others (Cured resin or duro	11.7	Polydimethylsiloxan	63394-02-5	85			
						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-met	25068-38-6	14.5			
						Misc	--	1			
			Bond wire	Gold	1.6	Gold	7440-57-5	99.9925			
						Arsenic, elemental	7440-38-2	0.0008			
						Bismuth	7440-69-9	0.0005			
						Chromium	7440-47-3	0.0001			
						Copper	7440-50-8	0.0013			
						Iron	7439-89-6	0.0005			
						Magnesium	7439-95-4	0.0008			
						Manganese	7439-96-5	0.0001			
						Nickel	7440-02-0	0.0001			
						Lead	7439-92-1	0.0005	X	Below threshold	
						Paladium	7440-05-3	0.0013			
						Silicon	7440-21-3	0.0013			
						Tin	7440-31-5	0.0003			
			Omega element	Other inorganic metals	13.7	Silicon	7440-21-3	100			
				Glass	6.5	Glass without declar	--	100			
				Cast aluminium alloys	0.008	Aluminium	7429-90-5	75.425			
						Titanium	7440-32-6	18.5			
						Copper	7440-50-8	0.075			
						Misc	--	6			
			Cobra gyro ASIC	Other inorganic metals	19.1	Silicon	7440-21-3	98.95			
						Silica,amorphous	112926-00-8	0.65			
						Aluminium	7429-90-5	0.15			
						Silicon-nitride	12033-60-2	0.15			
						Misc	--	0.1			

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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.	Weight % of substance in Material	RoHS Correspondence	Exemp. Cd	EU-RoHS(C/NG)*
	SCR2100-D08-05	960.208	Combo2 housing	Other thermoplastics	313.5	LCP	-	68			C
						GF-Fibre	-	32			
				Copper alloys	224.3	Copper	7440-50-8	97.3275			
						Iron	7439-89-6	2.35			
						Zinc	7440-66-6	0.125			
						Phosphorus	7723-14-0	0.0825			
						Lead	7439-92-1	0.015	X	Below threshold	
						Misc	-	0.1			
				Nickel plating	5.5	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	1.4	Gold	7440-57-5	99.945			
						Nitrogen	7727-37-9	0.05			
						Carbon	7440-44-0	0.005			
			Comboll-CAR ASIC	Other inorganic metals	16	Silicon	7440-21-3	98.95			
						Silica, amorphous	112926-00-8	0.65			
						Aluminium	7429-90-5	0.15			
						Silicon-nitride	12033-60-2	0.15			
						Misc	-	0.1			
			Combo2 lid	highly alloyed steel	233.7	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			
						sulphur	7704-34-9	0.015			
			Silicone gel fill	Others (Cured resin or duro	115	Silicone rubber	63394-02-5	98			
						Misc	-	2			
			Sensor die attach	Others (Cured resin or duro	7	Polydimethylsiloxan	63394-02-5	85			
						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	99.99			
						Misc	-	0.01			
			Omega element	Other inorganic metals	13.7	Silicon	7440-21-3	100			
				Glass	6.5	Silica, Crystalline	14808-60-7	70			
						Aluminium Oxide	1344-28-1	15			
						Disodium-oxide	1313-59-3	6			
						Misc	-	9			
				Cast aluminium alloys	0.008	Aluminium	7429-90-5	75.425			
						Titanium	7440-32-6	18.5			
						Copper	7440-50-8	0.075			
						Misc	-	6			

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	SCR2100-D08-6	960.208	Combo2 housing	Other thermoplastics	313.5	LCP	-	68			C
						GF-Fibre	-	32			
				Copper alloys	224.3	Copper	7440-50-8	97.3275			
						Iron	7439-89-6	2.35			
						Zinc	7440-66-6	0.125			
						Phosphorus	7723-14-0	0.0825			
						Lead	7439-92-1	0.015	X	Below threshold	
						Misc	-	0.1			
				Nickel plating	5.5	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	1.4	Gold	7440-57-5	99.945			
						Nitrogen	7727-37-9	0.05			
						Carbon	7440-44-0	0.005			
			Comboll-CAR ASIC	Other inorganic metals	16	Silicon	7440-21-3	98.95			
						Silica, amorphous	112926-00-8	0.65			
						Aluminium	7429-90-5	0.15			
						Silicon-nitride	12033-60-2	0.15			
						Misc	-	0.1			
			Combo2 lid	highly alloyed steel	233.7	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			
						sulphur	7704-34-9	0.015			
			Silicone gel fill	Others (Cured resin or duro	115	Silicone rubber	63394-02-5	98			
						Misc	-	2			
			Sensor die attach	Others (Cured resin or duro	7	Polydimethylsiloxan	63394-02-5	85			
						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	99.99			
						Misc	-	0.01			
			Omega element	Other inorganic metals	13.7	Silicon	7440-21-3	100			
				Glass	6.5	Silica, Crystalline	14808-60-7	70			
						Aluminium Oxide	1344-28-1	15			
						Disodium-oxide	1313-59-3	6			
						Misc	-	9			
				Cast aluminium alloys	0.008	Aluminium	7429-90-5	75.425			
						Titanium	7440-32-6	18.5			
						Copper	7440-50-8	0.075			
						Misc	-	6			

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	SFECF10M7FA00-R0	65.4	Resonant Ceramic Elements	Ceramics	34.63	Lead titanium zircon	12626-81-2	100	X	7(c)-I	C
			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			

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