

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 (Date of applicability)	EU-RoHS(C/NG)*
	BLM18AG601SN1J	4.63	Outer electrode	Other special metals	0.2385	Silver (Ag)	7440-22-4	100			C
				Glass	0.0265	diboron trioxide; boric oxide	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. 77947	1314-13-2	20			
						Nickel oxide	1313-99-1	10			
						Copper oxide; Copper (II) oxide	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

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Lanney D. McHargue

Corp. QA Manager

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	DE21XKY330JA3BM02	338.4	Lead wire	Copper alloys	146.3	Copper	7440-50-8	100			C
			Lead wire plating	Tin plating	7.7	Copper	7440-50-8	2			
						Tin	7440-31-5	98			
			Ceramic element	Ceramics	69.2	Strontium Oxide	1314-11-0	25			
						Titanium dioxide	13463-67-7	30			
						Calcium oxide	1305-78-8	20			
						Magnesium oxide	1309-48-4	10			
						Bismuth oxide	1304-76-3	10			
						Misc		5			
			Electrode	Copper alloys	0.2	Copper	7440-50-8	50			
						Nickel	7440-02-0	46			
						Titanium	7440-32-6	4			
			Solder	Lead-free solder	6	Tin	7440-31-5	99.3			
						Copper	7440-50-8	0.7			
			Outer coating resin	EP (Epoxy resin)	109	Diantimony trioxide	1309-64-4	2			
						Titanium dioxide	13463-67-7	4			
						Epoxy Resin	25068-38-6	37			
						TBBA-epichlorhydr	40039-93-8	17			
						Silica, amorphous	60676-86-0	28			
						Nickel oxide	11099-02-8	0.5			
						Copper oxide; Copp	1317-38-0	1.5			
						Misc		10			

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	DE2B3KY681KA3BM02	395.09	Lead wire	Copper alloys	146.3	Copper	7440-50-8	100			C
			Lead wire plating	Tin plating	7.7	Copper	7440-50-8	2			
						Tin	7440-31-5	98			
			Ceramic element	Ceramics	117.8	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			
			Electrode	Copper alloys	0.29	Copper	7440-50-8	50			
						Nickel	7440-02-0	46			
						Titanium	7440-32-6	4			
			Solder	Lead-free solder	6	Tin	7440-31-5	99.3			
						Copper	7440-50-8	0.7			
			Outer coating resin	EP (Epoxy resin)	117	Diantimony trioxide	1309-64-4	2			
						Titanium dioxide	13463-67-7	4			
						Epoxy Resin	25068-38-6	37			
						TBBA-epichlorhydr	40039-93-8	17			
						Silica, amorphous	60676-86-0	28			
						Nickel oxide	11099-02-8	0.5			
						Copper oxide; Copp	1317-38-0	1.5			
						Misc		10			

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	GRM1555C1H201JA01D	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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	GRM155R61A105KE15D	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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	GRM155R61E104KA87D	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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	GRM155R71E822KA01D	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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	GRM155R71H682KA88D	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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	GRM1885C1H680JA01D	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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	GRM188R60J225ME19D	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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	GRM188R61E224KA88B	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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	GRM188R71E103KA01D	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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	GRM188R71E103MA01D	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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	GRM188R71H183KA01D	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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	GRM188R71H472KA01B	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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	GRM188R71H562KA01D	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			
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Murata Americas

Date (mm/dd/yy)

5/4/15

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 (Date of applicability)	EU-RoHS(C/NG)*
	GRM188R72A331KA01D	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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	GRM219R61E225KA12D	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 (Date of applicability)	EU-RoHS(C/NG)*
	GRM31CR61E106KA12B	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			

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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 (Date of applicability)	EU-RoHS(C/NG)*
	GRM32EC80J476KE64L	110	Ceramic element	Ceramics	93.021	Barium oxide, obtained by calcining witherite	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; boric oxide	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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 Lanney D. McHargue
 Corp. QA Manager
 Murata Americas
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