

To: Lexmark
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)*
	BLM15PD300SN1D	1.21	Ceramic element	Ceramics	0.8179	Iron(III) oxide	1309-37-1	53			C
						Zinc oxide; C.I. 77947	1314-13-2	16			
						Nickel oxide	1313-99-1	17			
						Copper oxide; Copper (II) oxide	1317-38-0	10			
						Cobalt oxide (Co3O4)	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; boric 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	0.0207	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.0204	Tin	7440-31-5	100			

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	BLM18PG181SN1D	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			

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	BLM21PG300SN1D	9.8	Outer electrode	Other special metals	0.7146	Silver (Ag)	7440-22-4	100			C
				Glass	0.0794	diboron trioxide; boric oxide	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. 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	0.176	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			

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	BLM31BE601FN1L	25.2	Ceramic element	Ceramics	22.004	Iron(III) oxide	1309-37-1	57			C
						Zinc oxide; C.I. 77947	1314-13-2	15			
						Nickel oxide	1313-99-1	17			
						Copper oxide; Copper (II) oxide	1317-38-0	10			
						Cobalt oxide	1307-96-6	1			
			Outer electrode	Other special metals	1.917	Silver (Ag)	7440-22-4	100			
				Glass	0.213	diboron trioxide; boric oxide	1303-86-2	10			
						Silicon dioxide	7631-86-9	90			
			Inner electrode	Other special metals	0.698	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			

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	DE2B3KY471KA3BM02	320.19	Lead wire	Copper alloys	143.45	Copper	7440-50-8	100			C
			Lead wire plating	Tin plating	7.55	Copper	7440-50-8	2			
						Tin	7440-31-5	98			
			Ceramic element	Ceramics	77	Titanium dioxide	13463-67-7	20			
						Barium oxide, obtained by calcining witherite	1304-28-5	65			
						Tin dioxide	18282-10-5	5			
						Bismuth oxide	1304-76-3	5			
						Misc	-	5			
			Electrode	Copper alloys	0.19	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)	86	Diantimony trioxide; Antimony trioxide	1309-64-4	2			
						Titanium dioxide	13463-67-7	4			
						Epoxy resin	25068-38-6	37			
						TBBA-epichlorhydrin oligomer	40039-93-8	17			
						Silica, amorphous	60676-86-0	28			
						Nickel oxide	11099-02-8	0.5			
						Copper oxide; Copper (II) oxide	1317-38-0	1.5			
						Misc	-	10			

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	GCM1555C1H151JA16J	1.6	Outer electrode	Copper alloys	0.1818	Copper	7440-50-8	100			C
				Glass	0.0202	diboron trioxide; boric oxide	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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	GCM155R71H331KA37J	1.6	Ceramic element	Ceramics	1.065	Barium oxide, obtained by calcining witherite	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; boric oxide	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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	GCM2195C1H103JA16J	9.5	Outer electrode	Copper alloys	1.17	Copper	7440-50-8	100			C
				Glass	0.13	diboron trioxide; boric oxide	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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	GRM188R60J105KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtained by calcining witherite	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; boric oxide	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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	GRM188R71A105MA61D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtained by calcining witherite	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; boric oxide	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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	GRM188R71E104MA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtained by calcining witherite	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; boric oxide	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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	GRM188R71H182KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtained by calcining witherite	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; boric oxide	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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	GRM188R71H821KA01D	6.3	Ceramic element	Ceramics	4.347	Barium oxide, obtained by calcining witherite	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; boric oxide	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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	GRM21BR60J106ME19L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtained by calcining witherite	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; boric oxide	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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	GRM21BR61C225KA88L	17	Ceramic element	Ceramics	11.904	Barium oxide, obtained by calcining witherite	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; boric oxide	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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	GRM31CR60J107ME39B	64	Ceramic element	Ceramics	53.252	Barium oxide, obtained by calcining witherite	1304-28-5	60			C
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	4.86	Copper	7440-50-8	100			
				Glass	0.54	diboron trioxide; boric oxide	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.213	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	4.552	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.583	Tin	7440-31-5	100			

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	GRM31MF51H474ZA01L	34	Ceramic element	Ceramics	27.194	Barium oxide, obtained by calcining witherite	1304-28-5	60			C
						Titanium dioxide	13463-67-7	30			
						Misc	-	10			
			Outer electrode	Copper alloys	2.754	Copper	7440-50-8	100			
				Glass	0.306	diboron trioxide; boric oxide	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.124	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	3.284	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.338	Tin	7440-31-5	100			

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

Signature :
Name :
Title :
Company :
Date :

Donnie Boatright

Donnie Boatright
Corp. QA Manager
Murata Electronics
2016/06/20

To: Lexmark
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)*
	GRM32DR71H335KA88L	95	Ceramic element	Ceramics	78.498	Barium oxide, obtained by calcining witherite	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; boric oxide	1303-86-2	20			
						Silicon dioxide	7631-86-9	80			
			Nickel Plating Layer	Nickel plating	0.267	Nickel	7440-02-0	100			
			Inner electrode	Nickel and Nickel alloys	8.527	Nickel	7440-02-0	100			
			Tin Plating Layer	Tin plating	0.73	Tin	7440-31-5	100			

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

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