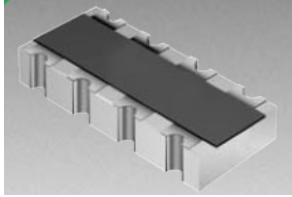


MATERIAL DECLARATION SHEET



Material Number	CAT10-J4LF			
Product Line	Chip Resistor Array			
Compliance Date	2005/1			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	CERAMICS BOARD	ALUMINA	0.00213	Magnesium oxide	1309-48-4	0.8	0.7214	90.2
				Silica, Crystalline	14808-60-7	3	2.7053	
				Aluminum oxide	1344-28-1	96.2	86.7511	
2	SURFACE ELECTRODE	GLASS Ag-Pd	0.000016	Lead(II) oxide	1317-36-8	5	0.0339	0.7
				Diboron trioxide	1303-86-2	1	0.0068	
				Palladium	7440-05-3	3	0.0203	
				Siler	7440-22-4	86	0.5826	
				Silica, Crystalline	14808-60-7	4	0.0271	
				Zirconium oxide	1314-23-4	1	0.0068	
				Lead(II) oxide	1317-36-8	26	0.1871	
Diboron trioxide	1303-86-2	4	0.0288					
Palladium	7440-05-3	7	0.0504					
Silver	7440-22-4	38	0.2735					
Silica, Crystalline	14808-60-7	9	0.0648					
Manganese oxide	1313-13-9	1	0.0072					
4	PROTECTIVE COAT 1	GLASS	0.00002	Lead(II) oxide	1317-36-8	50	0.4234	0.8
				Diboron trioxide	1303-86-2	10	0.0847	
				Silica, Crystalline	14808-60-7	37	0.3133	
				Chromium(III) oxide	1308-38-9	3	0.0254	
5	PROTECTIVE COAT 2	RESIN	0.000025	Silica, Crystalline	14808-60-7	35	0.3704	1.1
				Epoxy resin	-	65	0.6880	

MATERIAL DECLARATION SHEET



6	SIDE ELECTRODE	SPUTTERING	0.000026	Copper (metallic)	7440-50-8	99.75	1.0980	1.1
				Misc., not to declare	-	0.25	0.0028	
7	INTERNAL ELECTRODE	Nickel	0.000069	Nickel	7440-02-0	99.75	2.9140	2.9
				Misc., not to declare	-	0.25	0.0073	
8	EXTERNAL ELECTRODE	Tin	0.000059	Tin	7440-31-5	99.75	2.4916	2.5
				Misc., not to declare	-	0.25	0.0062	
Total weight			0.002362					

This Document was updated on: 2012/8/9

Important remarks:

1. RoHS exemptions: 7(c) –I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.