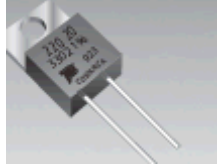


MATERIAL DECLARATION SHEET



Material Number	PWR220020XXX			
Product Line	Power Resistor			
Compliance Date				
RoHS Compliant	yes	MSL	N/A	

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	Housing	Epoxy Molding Compound	0.5	Silica	14808-60-7	53	15.132	28.55
				Epoxy Resin	29690-82-2	25	7.138	
				Phenolic Resin	9003-35-4	15	4.283	
				Antimony trioxide	1309-64-4	3	0.857	
				Brominated epoxy resin	40039-93-8	3	0.857	
				Carbon Black	1333-86-4	1	0.286	
2	Back Plate	Copper	1.03	Copper	7440-50-8	99.9	58.755	58.81
				Other		0.1	0.059	
		Plating	0.003	Nickel	7440-02-0	100	0.171	0.17
3	Terminal	Copper	0.11	Copper	7440-50-8	99.95	6.278	6.28
				Other		0.05	0.003	
		Plating	0.007	Tin	7440-31-5	100	0.400	0.40
4	Solder	Metal	0.02	Tin	7440-31-5	96.5	1.102	1.142
				Silver	7440-22-4	3	0.034	
				Copper	7440-50-8	0.5	0.006	
5	Substrate	Alumina	0.078	Aluminum Oxide	1344-28-1	88	3.919	4.45
				Manganese dioxide	1313-13-9	3.5	0.156	
				Titanium-dioxide	13463-67-7	3.5	0.156	
				Chromium(III)oxide	1308-38-9	2.5	0.111	
				Quartz (Silicon dioxide)	14808-60-7	2.5	0.111	

MATERIAL DECLARATION SHEET



6	Term Ink	Ink	0.002	Silver	7440-22-4	96	0.110	0.11
				Lead-Oxide	1309-60-0	1	0.001	
				Dibismuth-trioxide	1304-76-3	1	0.001	
				Platinum	7440-06-4	1	0.001	
				Confidential Substances		1	0.001	
7	Resistor Paste	Ink	0.0008	Palladium	7440-05-3	25	0.011	0.05
				Boraluminosilicate glass	65997-17-3	30	0.014	
				Trimethylpentanediol monoisobutyrate	25265-77-4	25	0.011	
				Silver	7440-22-4	15	0.007	
				Ruthenium dioxide	12036-10-1	1	0.000	
				Manganese dioxide	1313-13-9	1	0.000	
				Alumina	1344-28-1	3	0.001	
8	Encapsulant	Ink	0.0005	Lead-monoxide	1317-36-8	56.63	0.016	0.03
				Silicon dioxide	7631-86-9	27.89	0.008	
				Diboron-trioxide	1303-86-2	9.15	0.003	
				Chromium(III)oxide	1308-38-9	3.15	0.001	
				Confidential Substances		3.15	0.001	
		Total weight	1.751					

This Document was updated on: October 20, 2009

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemptions: 5 – lead in glass of cathode ray tubes, electronic components & fluorescent tubes.