


MATERIAL DECLARATION SHEET



Material Number	PWR1913			
Product Line	SURFACE MOUNT WIREWOUND RESISTOR			
Compliance Date	1/1/2000			
RoHS Compliant	YES	MSL	2	

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	LEAD WIRE	COPPER	0.03317	COPPER	7440-50-8	100	30.865	30.87
2	LEAD WIRE PLATING	TIN	0.00068	TIN	7440-31-5	100	0.634	0.63
3	END CAPS	1018 STEEL	0.01282	CARBON (C)	1333-86-4	0.17	0.020	11.93
				IRON (Fe)	7439-89-6	98.99	11.809	
				MANGANESE (Mn)	7439-96-5	0.75	0.089	
				PHOSPHORUS (P)	7440-31-5	0.04	0.005	
4	RESISTANCE WIRE	Ni-Cr ALLOY	0.00295	SULPHUR (S)	7704-34-9	0.05	0.006	2.74
				NICKEL (Ni)	7440-02-0	73.99	2.029	
				CHROMIUM (Cr)	7440-47-3	20.00	0.549	
				ALUMINIUM (Al)	7429-90-5	3.00	0.082	
5	EPOXY	EPOXY	0.0395	SILICON (Si)	7440-21-3	3.00	0.082	36.74
				EPOXY RESIN	25928-94-3	5.00	1.837	

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	ENCAPSULANT			PHENOLIC RESIN	25928-94-3	5.00	1.837	
				MINERAL FILLERS	25928-94-3	70.00	25.719	
				FLAME RETARDANTS	25928-94-3	10.00	3.674	
				PIGMENTS	25928-94-3	5.00	1.837	
				CATALYSTS	25928-94-3	5.00	1.837	
6	CORE	STEATITE	0.01838	ALUMINA (Al ₂ O ₃)	1344-28-1	75.00	12.823	17.10
				SILICA (SiO ₂)	60676-86-0	23.42	4.004	
				MAGNESIUM OXIDE (MgO)	1309-48-4	0.18	0.031	
				SODIUM DIOXIDE (Na ₂ O)	12401-86-4	0.91	0.156	
				IRON OXIDE (Fe ₂ O ₃)	1309-37-1	0.12	0.021	
				CALCIUM OXIDE (CaO)	1305-78-8	0.18	0.031	
				TITANIUM DIOXIDE (TiO ₂)	13463-67-7	0.06	0.010	
				BORON TRIOXIDE (B ₂ O ₃)	1303-86-2	0.12	0.021	
		Total Weight	0.108					

This Document was updated on 1/25/2007

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.