



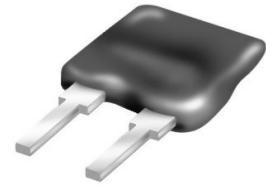
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Resistor Material Composition – Ultra Stable Resistor Through Hole

RP3 Series



This statement pertains to the following directive 2011/65/EC of the European Parliament and of the Council of the European Union on the restriction of the use of certain hazardous substances in electrical and electronic equipment. The definition of LEAD-FREE products is external terminal meet LeadFree. RoHS exemption 7 (c)-1, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronics devices, or in a glass or ceramic matrix compound (2011/65/EU)

CAS no.	Material	Substance	RP3	
			Mass mg	%
1344-28-1	Ceramic Substrate	Al ₂ O ₃	64.91	86.73%
60676-86-0		SiO ₂	2.704	3.61%
7440-22-4	Conductor Layer	Ag	0.155	0.21%
65997-17-3		Glass	0.008	0.01%
7440-22-4	Conductor Layer	Ag	0.683	0.91%
7440-05-03		Pd	0.009	0.01%
65997-17-3		Glass	0.173	0.23%
7440-47-3	Resistive Element	Cr	0.131	0.17%
7440-02-0		Ni	0.209	0.28%
65997-17-3		Glass	0.105	0.14%
25068-38-6	Over-Coating	Epoxy	1.313	1.75%
25068-38-6	Marking	Epoxy	0.084	0.11%
7440-02-0	End Terminal	Ni	0.019	0.03%
7440-47-3		Cr	0.005	0.01%
7440-02-0	Ni Plating	Ni	2.289	3.06%
7440-31-5	Sn Plating	Sn	2.043	2.73%
All of the above are approximate values by the component parts of the material			74.84	100%