



Material Declaration Sheet

Draloric/Beyschlag Resistor

Date: 7/08/2016

Part / Product Family Details

Part / Family Series	RoHS Compliance Status	RoHS Compliance Date Code dd-mmm-yyyy	Total product Weight (mg)	Value Range	3rd Party Lab ICP Test Report Available	Manufacturing Location	Number of Exemptions Used
SMM0204 series	YES	May 2005	18.739	All R values	Yes		None

Technical Information

Terminal Plating / Grid Array Material	Terminal Base Alloy	JESD-97 Pb-Free Material Code Marking	J-STD-20D MSL Rating	Reflow Peak Process Body Temperature	Reflow Maximum number of cycles	Reflow Max.Time at Peak Temperature (sec)	Soldering Compatibility (SnPb/Pb-Free)
Matte Sn	Other	e3	N/A	260 ° C	3	40	Backward & Forward

Material Composition

Homogenous Material Name	Material Classification	Substance Name	CAS number	Weight of Substance (mg)	With respect to Homogenous Material		% with respect to Total Product Weight	RoHS Exemptions Used
					%	ppm		
Caps				8.51000				
	Iron	Iron	7439-89-6	8.46000	99.41	994125	45.15	0 - None
	Nickel	Nickel	7440-02-0	0.05000	0.59	5875	0.27	0 - None
Ceramic Core				8.03000				
	Barium Oxide, Obtained By Calcining Witherite	Barium Oxide, Obtained By Calcining Witherite	1304-28-5	0.20000	2.49	24907	1.07	0 - None
	Magnesium Oxide	Magnesium Oxide	1309-48-4	0.17000	2.12	21171	0.91	0 - None
	Aluminium Oxide	Aluminium Oxide	1344-28-1	6.80000	84.68	846824	36.29	0 - None
	Silicon Dioxide	Silicon Dioxide	7631-86-9	0.79000	9.84	98381	4.22	0 - None
	Miscellaneous	Miscellaneous	System	0.07000	0.87	8717	0.37	0 - None
Coating				1.41900				
	Epoxy Resine	Epoxy Resine	25068-38-6	1.04000	73.29	732911	5.55	0 - None
	Silicon Dioxide	Silicon Dioxide	7631-86-9	0.37000	26.07	260747	1.97	0 - None
	Color Pigment	Color Pigment	System	0.00900	0.63	6342	0.05	0 - None
Marking				0.07000				
	Epoxy Resine	Epoxy Resine	25068-38-6	0.07000	100.00	1000000	0.37	0 - None
Resistive layer				0.10000				
	Aluminium	Aluminium	7429-90-5	0.01000	10.00	100000	0.05	0 - None
	Nickel	Nickel	7440-02-0	0.04500	45.00	450000	0.24	0 - None
	Chromium	Chromium	7440-47-3	0.04500	45.00	450000	0.24	0 - None
Termination				0.61000				
	Tin	Tin	7440-31-5	0.61000	100.00	1000000	3.26	0 - None

EU-RoHS Directive-2011/65/EU MCV of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and MCV of 0.01% by mass cadmium

Exemption Used: NONE

Note :- (i) All information is based on data received from our vendors & subjected to change without prior notice.
(ii) Substance weight are derived from MSDS.

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