



Material Declaration Sheet

Draloric/Beyschlag Resistor

Date: 6/26/2014

Part / Product Family Details

Part / Family Series	RoHS Compliance Status	RoHS-Compliant Replacement Part dd-mm-yy	Total product Weight (mg)	Value Range	MDS Provided For	Manufacturing Location	
CRCW0402 RoHS Non Compliant (All R values except 1R to less than 10R)	NO		0.6091609	All R values except (1R to less than 10R)	Yes	Israel	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)
Tin/Lead	Other		Not Applicable	260 ° C	3	40	Backward

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		
Ceramic substrate	Magnesium Oxide	Magnesium Oxide	1309-48-4	0.44709	0.99	9931	0.73	0 - None
	Aluminium Oxide	Aluminium Oxide	1344-28-1	0.42697	95.50	954998	70.09	0 - None
	Silicon Dioxide	Silicon Dioxide	7631-86-9	0.01300	2.91	29077	2.13	0 - None
	Miscellaneous	Miscellaneous	System	0.00268	0.60	5994	0.44	0 - None
Passivation	Lead(2+) Silicate	Lead(2+) Silicate	10099-76-0	0.00446	97.81	978070	0.73	0 - None
	Chromium (III) Oxide	Chromium (III) Oxide	1308-38-9	0.00010	2.19	21930	0.02	0 - None
Resistive layer				0.00340				
	Lead(2+) Silicate	Lead(2+) Silicate	10099-76-0	0.00102	30.00	300000	0.17	0 - None
	Ruthenium (Iv) Oxide	Ruthenium (Iv) Oxide	12036-10-1	0.00068	20.00	200000	0.11	0 - None
	Palladium	Palladium	7440-05-3	0.00034	10.00	100000	0.06	0 - None
	Silver	Silver	7440-22-4	0.00136	40.00	400000	0.22	0 - None
Termination				0.13691				
	Lead(2+) Silicate	Lead(2+) Silicate	10099-76-0	0.00209	1.53	15265	0.34	0 - None
	Lead	Lead	7439-92-1	0.00984	7.19	71872	1.62	0 - None
	Nickel	Nickel	7440-02-0	0.02603	19.01	190124	4.27	0 - None
	Silver	Silver	7440-22-4	0.05959	43.52	435247	9.78	0 - None
	Tin	Tin	7440-31-5	0.03936	28.75	287486	6.46	0 - None
	Chromium	Chromium	7440-47-3	0.00000	0.00	2	0.00	0 - None
	Copper	Copper	7440-50-8	0.00000	0.00	4	0.00	0 - None
Top Coat Marking				0.01720				
	Epoxy Resine	Epoxy Resine	25068-38-6	0.01074	62.46	624619	1.76	0 - None
	Silicon Dioxide	Silicon Dioxide	7631-86-9	0.00646	37.54	375381	1.06	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

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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