



Material Declaration Sheet

Vishay Inter-technology

Date 1/21/2019

Part / Product Family Details

Vishay Part Number	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
PR01 series [Cu wire dia 0.58Cu]	YES	01-Oct-2004	215.7111	All R values	Yes	India	0

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	CU Alloy	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		
Ceramics	Ceramics / glass			43.000000				
		Aluminiumoxide	1344-28-1	36.460000	84.7907	847907	16.90224	0 - None
		Bariumoxide	1304-28-5	1.070000	2.4884	24884	0.49603	0 - None
		Magnesiumoxide	1309-48-4	0.850000	1.9767	19767	0.39405	0 - None
		Miscellaneous	System	0.360000	0.8372	8372	0.16689	0 - None
		Silicondioxide	7631-86-9	4.260000	9.9070	99070	1.97486	0 - None
Cu-ETP1	3.1 copper			125.100000				
		Copper	7440-50-8	124.974900	99.9000	999000	57.93624	0 - None
		Miscellaneous	System	0.125100	0.1000	1000	0.05799	0 - None
Nickel alloy layer	Nickel alloys			0.001000				
		Chromium	7440-47-3	0.000400	40.0000	400000	0.00019	0 - None
		Nickel	7440-02-0	0.000600	60.0000	600000	0.00028	0 - None
SI-QD-80	Other duromer			11.600000				
		Filler	60676-86-0	9.600000	82.7586	827586	4.45040	0 - None
		Pigment Red 101 (C.I.)	1309-37-1	0.100000	0.8621	8621	0.04636	0 - None
		Silicon	7440-21-3	1.900000	16.3793	163793	0.88081	0 - None
Sn99.9	Other special metal			3.710000				
		Miscellaneous	System	0.003700	0.0997	997	0.00172	0 - None
		Tin	7440-31-5	3.706300	99.9003	999003	1.71818	0 - None
Steel	unalloyed,low alloyed			32.300100				
		Carbon	7440-44-0	0.032300	0.1000	1000	0.01497	0 - None
		Iron	7439-89-6	32.090100	99.3498	993498	14.87642	0 - None
		Manganese	7439-96-5	0.177700	0.5502	5502	0.08238	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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