



Material Declaration Sheet

Vishay Inter-technology

Date: 9/12/2022

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
SFR25 series	YES	01-Aug-2004	205.031	All R values	Yes	-	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	Not Applicable	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			39.00000				
		Aluminium oxide	1344-28-1	30.61000	78.49	784872	14.93	0 - None
		Barium oxide	1304-28-5	1.01000	2.59	25897	0.49	0 - None
		Magnesium oxide	1309-48-4	1.05000	2.69	26923	0.51	0 - None
		Silicon dioxide	7631-86-9	5.81000	14.90	148974	2.83	0 - None
		Miscellaneous	System	0.52000	1.33	13333	0.25	0 - None
Cu ETP1	3.1 Copper			125.17000				
		Copper	7440-50-8	123.91830	99.00	990000	60.44	0 - None
		Miscellaneous	System	1.25170	1.00	10000	0.61	0 - None
EP	other duromer			4.00000				
		Epoxy resin	25068-38-6	1.40000	35.00	350000	0.68	0 - None
		Pigment Red 101 (C.I.)	1309-37-1	2.10000	52.50	525000	1.02	0 - None
		Urea-Formaldehyde Resin	9011-05-6	0.50000	12.50	125000	0.24	0 - None
		Miscellaneous	System	0.00100				
Nickel alloy	Nickel alloys			0.00015	15.00	150000	0.00	0 - None
		Aluminium	7429-90-5	0.00015	15.00	150000	0.00	0 - None
		Chromium	7440-47-3	0.00012	12.00	120000	0.00	0 - None
		Nickel	7440-02-0	0.00060	60.00	600000	0.00	0 - None
		silicon	7440-21-3	0.00013	13.00	130000	0.00	0 - None
		Miscellaneous	System	4.43000				
Sn99.9	Other special metal			4.38570	99.00	990000	2.14	0 - None
		Sn	7440-31-5	0.04430	1.00	10000	0.02	0 - None
Steel ST4	Unalloyed, low alloyed			32.43000				
		Aluminium [metal]	7429-90-5	0.10000	0.31	3084	0.05	0 - None
		Carbon	7440-44-0	0.09000	0.28	2775	0.04	0 - None
		Iron	7439-89-6	32.14000	99.11	991058	15.68	0 - None
		Manganese	7439-96-5	0.10000	0.31	3084	0.05	0 - None
		Miscellaneous	System					

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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