



Material Declaration Sheet

Vishay Inter-technology

Date 03/03/2021

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
SI1902CDL-T1-GE3	YES	01-Jan-2004	8.4		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	1	260 ° C	3	30	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		
Bond Wire	Other special metals			0.20000				
		Gold	7440-57-5	0.20000	100.00	1000000	2.38	0 - None
Die Attach	Other special metals			0.11000				
		Epoxy Resin	25068-38-6	0.03000	27.27	272727	0.36	0 - None
		Silver	7440-22-4	0.08000	72.73	727273	0.95	0 - None
Lead frame	Copper alloys			3.22000				
		Copper	7440-50-8	2.98000	92.55	925466	35.48	0 - None
		Iron	7439-89-6	0.09000	2.80	27950	1.07	0 - None
		Phosphorous	7723-14-0	0.06000	1.86	18634	0.71	0 - None
		Zinc	7440-66-6	0.09000	2.80	27950	1.07	0 - None
Mold Compound	Electronics (e.g. pc boards, displays)			4.00000				
		Alumina Hydroxide	21645-51-2	0.32000	8.00	80000	3.81	0 - None
		Epoxy Resin	29690-82-2	0.32000	8.00	80000	3.81	0 - None
		Fused Silica	60676-86-0	3.08000	77.00	770000	36.67	0 - None
		Phenol Resin	9003-35-4	0.28000	7.00	70000	3.33	0 - None
Semiconductor Device	Other special metals			0.47000				
		Doped Silicon	7440-21-3	0.39000	82.98	829787	4.64	0 - None
		Topside metal	7429-90-5	0.08000	17.02	170213	0.95	0 - None
Solder Plating	Other special metals			0.40000				
		Tin	7440-31-5	0.40000	100.00	1000000	4.76	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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