



Material Declaration Sheet

Vishay Inter-technology

Date: 8/11/2022

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
MBB/SMA0207 series	YES	02-Jun-2005	221.087	All 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)
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		
Copper alloy	Copper alloy 3.2	Copper	7440-50-8	136.62000	99.93	999268	61.75	0 - None
		Miscellaneous	System	0.10000	0.07	732	0.05	0 - None
Electroless Ni-P	3.4 Nickel alloy			0.70700				
		Nickel	7440-02-0	0.60200	85.15	851485	0.27	0 - None
		Phosphorus	12185-10-3	0.10000	14.14	141443	0.05	0 - None
		Miscellaneous	System	0.00500	0.71	7072	0.00	0 - None
EP-QD 35	5.4.3 Other duromers			6.24000				
		Pigment	147-14-8	0.50000	8.01	80128	0.23	0 - None
		Silicon dioxide	60676-86-0	2.17000	34.78	347756	0.98	0 - None
		Basic duromer epoxy resin	System	3.57000	57.21	572115	1.61	0 - None
Nickel alloy	Nickel alloys			0.07000				
		Chromium	7440-47-3	0.02800	40.00	400000	0.01	0 - None
		Nickel	7440-02-0	0.04200	60.00	600000	0.02	0 - None
Sn99	Other special metal			7.95000				
		Tin	7440-31-5	7.94500	99.94	999371	3.59	0 - None
		Miscellaneous	System	0.00500	0.06	629	0.00	0 - None
Steel	1.1.1 unalloyed, low alloyed steel			27.66000				
		Carbon	7440-44-0	0.02766	0.10	1000	0.01	0 - None
		Iron	7439-89-6	27.48021	99.35	993500	12.43	0 - None
		Manganese	7439-96-5	0.15213	0.55	5500	0.07	0 - None
Substrate (Ceramic)	Ceramics / glass			41.84000				
		Aluminiumoxide	1344-28-1	35.56000	84.99	849904	16.08	0 - None
		Silicondioxide	7631-86-9	4.19000	10.01	100143	1.90	0 - None
		ceramic without declarable substances	System	1.84000	4.40	43977	0.83	0 - None
		Miscellaneous	System	0.25000	0.60	5975	0.11	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.