



Material Declaration Sheet

Vishay Inter-technology

Date: 2/2/2021

Part / Product Family Details

Part / Family Series	RoHS Compliance Status	RoHS Compliance Date Code dd-mm-yyyy	Total product Weight (mg)	Value Range	3rd Party Lab ICP Test Report Available	Manufacturing Location	Number of Exemptions Used
AC05 Series	YES	01-Sep-2004	1896.9	Generic	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 Tin (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		
Ceramic Core	ceramic/glass			1133.40000				
		Aluminiumoxide	1344-28-1	532.70000	47.00	470002	28.08	0 - None
		Bariumoxide	1304-28-5	91.80000	8.10	80995	4.84	0 - None
		Miscellaneous system		4.50000	0.40	3970	0.24	0 - None
		Potassiumoxide	12136-45-7	5.70000	0.50	5029	0.30	0 - None
		Silicondioxide	7631-86-9	498.70000	44.00	440004	26.29	0 - None
Cu-ETP1	3.1 copper			13.70000				
		Copper	7440-50-8	13.68630	99.90	999000	0.72	0 - None
		Miscellaneous system		0.01370	0.10	1000	0.00	0 - None
EP-QD-85	other duromer			124.80000				
		Basic duromer :Silicone resin [compound of a polymeric network]	system	19.30000	15.46	154647	1.02	0 - None
		Epoxy resin	25068-38-6	1.50000	1.20	12019	0.08	0 - None
		Silicondioxide	7631-86-9	104.00000	83.33	833333	5.48	0 - None
Nickel chrome alloy	Nickel alloys			11.80000				
		Chromium	7440-47-3	1.80000	15.25	152542	0.09	0 - None
		Iron	7439-89-6	2.30000	19.49	194915	0.12	0 - None
		Nickel	7440-02-0	7.70000	65.25	652542	0.41	0 - None
Nickel plating	Nickel alloys			0.90000				
		Miscellaneous system		0.00090	0.10	1000	0.00	0 - None
		Nickel	7440-02-0	0.89910	99.90	999000	0.05	0 - None
Sn99.9	other special metal			10.30000				
		Miscellaneous system		0.01030	0.10	1000	0.00	0 - None
		Tin	7440-31-5	10.28970	99.90	999000	0.54	0 - None
ST410	low alloyed,unalloyed			602.00000				
		Aluminium	7429-90-5	1.86620	0.31	3100	0.10	0 - None
		Carbon	7440-44-0	1.86620	0.31	3100	0.10	0 - None
		Iron	7439-89-6	592.66900	98.45	984500	31.24	0 - None
		Manganese	7439-96-5	1.86620	0.31	3100	0.10	0 - None
		Nickel	7440-02-0	0.36120	0.06	600	0.02	0 - None
		Phosphorus	7723-14-0	1.86620	0.31	3100	0.10	0 - None
		Sulpher	7704-34-9	1.50500	0.25	2500	0.08	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.