

Material Declaration Sheet

Vishay General Semiconductor - PDD

art / Product Family Details Total product Number of Exemptions 3rd Party Lab ICP Test Manufacturing RoHS Compliance Date Code Vishay Part Number RoHS Compliance Status Weight (gm) Resistance value Report Available Location dd-mm-yyyy 2. 1 N/A Yes China P600A-E3 to P600M-E3 YES WITH EXEMPTION 01-12-2004 0ne

Technical Information: refer to http://www.vishay.com/how/leadfree/#summary

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)
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Material Composition

Homogenous Material Name	Material Classification	Substance Name	CAS number	Weight of Substance (gm)	With respect to Homogenous Material		% with respect to	RoHS Exemptions Used
					%	ppm	Total Product Weight	
Chip	Electronics (e.g. pc boards, displays)	Silicon and others (business secret)	-	0.01115	100.00	1000000	0.53	
Lead Wire	Copper (e.g. copper amounts in cable harnesses	copper	7440-50-8	1. 12388	100.00	1000000	53. 52	
Solder 92.5	Other special metals	Lead	7439-92-1	0. 01542	92. 50	925000	0.73	Exemption No:-7 a
		Tin	7440-31-5	0.00083	5. 00	50000	0.04	
		Silver	7440-22-4	0. 00042	2.50	25000	0.02	
Encapsulation	Other duromers	Silica (SiO2)	14808-60-7	0. 64650	70.00	700000	30. 79	
		Epoxy resin	29690-82-2	0. 14777	16.00	160000	7.04	
		Phenolic resin	9003-35-4	0. 11083	12.00	120000	5. 28	
		Antimony trioxide (Sb203)	1309-64-4	0.00924	1.00	10000	0.44	
		Brominated epoxy resin	40039-93-8	0. 00462	0.50	5000	0. 22	
		Carbon Black	1333-86-4	0. 00462	0.50	5000	0. 22	
Silastic	Electronics (e.g. pc boards, displays)	Poly Dimethye Silosan	-	0.00997	90.00	900000	0. 47	
		White Pigment	-	0. 00055	5.00	50000	0.03	
		Filler	-	0. 00055	5.00	50000	0.03	
Surface finish	Other special metals	Tin	7440-31-5	0. 01361	100.00	1000000	0.65	
Marking	Electronics (e.g. pc boards, displays)	Acrylic cster oligomer	-	0.00002	35.00	350000	0.00	
		Acrylic cster monomer A	-	0.00001	25.00	250000	0.00	
		Acrylic cster monomer B	94108-97-1	0.00000	10.00	100000	0.00	
		Photo Initiator	71868-10-5	0.00000	5.00	50000	0.00	
		Pigment	-	0.00001	24. 00	240000	0.00	
		Additives	9002-88-4	0.00000	1.00	10000	0.00	

EU-RoHS Directive- MCV of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated 2015/863/EU Diphenyl Ethers (PBDE) and MCV of 0.01% by mass cadmium ,Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Inis MDS valid for

Exemption Used 7(a) - Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)

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.





2/Sep/17

Date