

Material Declaration Sheet

Vishay General Semiconductor - PDD

Pata 28/Jul/20

Vishay Part Number	RoHS Compliance Status	RoHS Compliance Date Code Weight (gm) Resis		Resistance value	3rd Party Lab ICP Test Report Available	Manufacturing Location	Number of Exemptions Used
P6SMBnn (A) – (H) E3 P6SMBnn (A) HE3 , A SM6TnnA- (H) E3 SMB10Jxx (A) – (H) E3 SMB0Jxx (A) – (H) E3 SMLG3nnnA- (H) E3 SMZG3nnnA- (H) E3 SMZJ3nnnA- (H) E3 SMZJ3nnnA- (H) E3 SMSTnnCA- (H) E3 SM6TnnCA- (H) E3 SM6TxnCA- (H) E3 SM6TxnCA- (H) E3 SMBJxxC (A) – (H) E3 SMBJxxC (A) – (H) E3 SMBJxxC (A) – (H) E3 SMBJxxC (B) E3 SMBZG9nnB- (H) E3 SMBZG9nnB- (H) E3 SMZJ3nnnB- (H) E3	YES WITH EXEMPTION	01-12-2004	0. 093	N/A	Yes	China	Two

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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aterial Composition

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Homogenous Material Name	Material Classification	Substance Name	CAS number	Weight of Substance (gm)	With respect to Homogenous Material		% with respect to Total Product Weight	RoHS Exemptions Used
					%	ppm	Total Troduct weight	
Chip	Electronics (e.g. pc boards, displays)	Silicon and others (business secret)	-	0.00260	100.00	1000000	2.80	Exemption No:7(c)-I
Lead Frame	Copper (e.g. copper amounts in cable harnesses)	Copper	7440-50-8	0.03640	100.00	1000000	39. 14	
Solder 92.5	Other special metals	Lead	7439-92-1	0.00315	92, 50	925000	3, 38	Exemption No:7(a)
		Tin	7440-31-5	0.00017	5.00	50000	0.18	
		Silver	7440-22-4	0.00008	2.50	25000	0.09	
Encapsulation	Other duromers	Quartz (SiO2)	14808-60-7	0.03395	70.00	700000	36. 51	
		Epichlorohydrin, o-cresol, formalde polymer	29690-82-2	0.00776	16.00	160000	8. 35	
		Phenol-formaldehyde resin	9003-35-4	0.00582	12.00	120000	6. 26	
		Antimony oxide (Sb2-03)	1309-64-4	0.00049	1.00	10000	0.52	
		Carbon-Black	1333-86-4	0.00012	0.25	2500	0.13	
		Additive & know-how	-	0.00036	0.75	7500	0.39	
Surface finish	Other special metals	Tin	7440-31-5	0.00210	100, 00	1000000	2, 26	_

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/BU 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)

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

2nd Exemption Used 7(c)-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound

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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