



Material Declaration Sheet

Vishay General Semiconductor - VGSC

Date: 20/Aug/21

Part / Product Family Details

Vishay Part Number	RoHS Compliance Status	RoHS Compliance Date Code dd-mm-yyyy	Total product Weight (gm)	Resistance value	3rd Party Lab ICP Test Report Available	Manufacturing Location	Number of Exemption used
PEK5MA13A-01(H)E3 SM2S10A-(H)E3 TPSMann(A)-(H)E3	YES WITH EXEMPTION	01-12-2004	0.064	N/A	Yes	China	One

Material Composition

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		
Chip	Electronics (e.g. pc boards, displays)	Silicon and others (business secret)	-	0.00190	100.00	1000000	2.97	
Lead Frame	Copper (e.g. copper amounts in cable harnesses)	Copper	7440-50-8	0.02300	100.00	1000000	35.94	
Solder 92.5	Other special metals	Lead	7439-92-1	0.00231	92.50	925000	3.61	Exemption No:7(a)
		Tin	7440-31-5	0.00013	5.00	50000	0.20	
Encapsulation	Other duromers	Silver	7440-22-4	0.00006	2.50	25000	0.10	
		Quartz (SiO2)	14808-60-7	0.02449	70.00	700000	38.27	
		Epichlorohydrin, o-cresol, formalde polymer	29690-82-2	0.00560	16.00	160000	8.75	
		Phenol-formaldehyde resin	9003-35-4	0.00420	12.00	120000	6.56	
		Antimony oxide (Sb2-O3)	1309-64-4	0.00035	1.00	10000	0.55	
		Carbon-Black	1333-86-4	0.00009	0.25	2500	0.14	
Surface finish	Other special metals	Additive & know-how	-	0.00026	0.75	7500	0.41	
		Tin	7440-31-5	0.00160	100.00	1000000	2.50	

EU-RoHS Directive- 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 2015/863/EU 0.01% by mass cadmium, Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

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.

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into your Design

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