



Materials Declaration Report

Package	STGL41 (Planar)
Device(Selector Guide Name)	BYM13/SGL41 series
Report Date:	3/9/2020
Supplier Company Name	Vishay Micro-electronics (Xi'an) Co.,Ltd
Supplier Contact Person name	Novia Lee
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Exemptions

RoHS - 7a Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)	Y
RoHS - 7 (c) - 1 Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound	N

Compliance Information

Part(s) RoHS Compliant **Yes**

Test Methods


Test Item (s):	Method
Cadmium/Cadmium Compounds	IEC 62321
Chromium VI (Cr+6)	IEC 62321
Lead/Lead Compounds	IEC 62321
Mercury/Mercury Compounds	IEC 62321
Polybrominated Biphenyls (PBBs)	IEC 62321
Polybrominated Diphenylethers (PBDEs)	IEC 62321



Material Declaration Data Sheet

Package Family	STGL41 (Planar)
Date	2020/3/9

Composition part	Material Description	Weight (g)	Substance Name	CAS Number	Typical Substance weight(g)	%	PPM	% of Total Weight
Chip	Electronics (e.g. pc boards, displays)	0.00210	Silicon	7440-21-3	0.00210	100.00	1000000	1.53
Lead Frame	Copper	0.09599	Copper (Cu)	7440-50-8	0.09598	99.99	999900	70.11
			Nickel (Ni)	7440-02-0	0.00001	0.01	100	0.01
Solder 97.2	Other special metals	0.00338	Lead	7439-92-1	0.00329	97.25	972500	2.40
			Tin	7440-31-5	0.00003	1	10000	0.02
			Silver	7440-22-4	0.00006	1.75	17500	0.04
Encapsulation	Other duromers	0.03475	Silica, fused	60676-86-0	0.02433	70.00	700000	17.77
			Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2	0.00521	15.00	160000	3.81
			Formaldehyde, oligomeric reaction products with phenol	9003-35-4	0.00348	10.00	120000	2.54
			2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	40039-93-8	0.00070	2.00	20000	0.51
			Antimony trioxide	1309-64-4	0.00070	2.00	10000	0.51
			Carbon-Black	1333-86-4	0.00035	1.00	2500	0.25
Surface finish	Other special metals	0.00062	Tin	7440-31-5	0.00062	100.00	1000000	0.46
Marking	Ink	0.00005	2-Propenic, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and. 3a,4,7,7a-tetrahydro-1,3-isobenzofurandione	53192-18-0	0.00003	60.00	600000	0.02
			3-Methylbutyl 4-Dimethylaminobenzoate	21245-01-2	0.00001	10.00	100000	0.00
			Dye	-	0.00001	15.00	150000	0.01
			1-Hydroxycyclohexyl phenyl ketone	947-19-3	0.00000	5.00	50000	0.00
			Titanium Dioxide	13463-67-7	0.00001	10.00	100000	0.00
Total weight		0.137						

Company	Vishay Micro- electronics (Xi'an) Co., Ltd	 Vishay Micro-electronics (Xi'an) Co.,Ltd ****APPROVED****
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