

4 Leads - VK
Package Material Declaration



Date	12-Feb-18	Product name	Integrated Circuit
Package Code	VK	RoHS Compliant	Y
Package Name	Plastic Single in Line, thickness 1.5-1.6 mm	Halogen Free	Y
Product Total Mass (g)	0.14734	Plating	Pure Matte Sn

Product Number	MLX90285
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Material Declaration

Part Name	Material Name	Component Weight (g)	Material Component (Element)	CAS #	Element ratio (%)	Material Weight (g)	Ratio total Wt (ppm)
Leadframe	Copper-Tin-Phosphorous Alloy EFTEC-3S	0.09640	Copper (Cu)	7440-50-8	99.84	0.09625	653216
			Tin (Sn)	7440-31-5	0.15	0.00014	981
			Phosphorus (P)	7723-14-0	0.01	0.00001	65
Plating	Silver	0.00042	Silver (Ag)	7440-22-4	100	0.00042	2871
Die	Silicon	0.0015	Silicon (Si)	7440-21-3	99.99	0.00152	10349
			Others	-	0.01	0.0000002	1
Die attach material	CRM-1076WA	0.0001	Silver (Ag)	7440-22-4	79.4	0.00009	577
			Epoxy resin A	9003-36-5	4	0.000004	29
			Epoxy resin B	Trade secret	6	0.00001	44
			Acrylate	Trade secret	4	0.000004	29
			Phenolic hardener	Trade secret	6	0.00001	44
			Dicyandiamide	461-58-5	0.3	0.0000003	2
Wire	Gold	0.00027	Gold (Au)	7440-57-5	99.99	0.00027	1818
			Others	-	0.01	0.00000003	0.2
Lead Finish	Tin	0.00244	Tin (Sn)	7440-31-5	99.99	0.00244	16570
			Others	-	0.01	0.0000002	2
Encapsulation	Epoxy Resin G600	0.04618	Silica Fused	60676-86-0	86	0.03971	269524
			Multi-aromatic Resin	Trade Secret	7.5	0.00346	23505
			Epoxy Cresol Novolac	Trade Secret	2	0.00092	6268
			Phenol Resin	Trade Secret	4	0.00185	12536
			Carbon Black	1333-86-4	0.5	0.00023	1567

Total package weight (g) 0.14734

Comments

- Composition derived from MSDS and material CoC from vendors
- Component weight based on assembly of generic parts
- Reliability qualification reports are available upon request through the appropriate sales or marketing contact
- Third party testing for RoHS substances are available upon request to environment@melexis.com

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