

8 Leads - SOIC
Package Material Declaration



Date	12-Feb-18	Product name	Integrated Circuit
Package Code	DC	RoHS Compliant	Y
Package Name	Plastic Small Outline 150mil	Halogen Free	Y
Product Total Mass (g)	0.07843	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	High Copper Alloy C194	0.02945	Copper (Cu)	7440-50-8	97.5	0.02871	366130
			Iron (Fe)	7439-89-6	2.35	0.00069	8825
			Zinc (Zn)	7440-66-6	0.03	0.00001	113
			Phosphor (P)	7723-14-0	0.12	0.00004	451
Plating	Silver	0.00042	Silver (Ag)	7440-22-4	100	0.00042	5394
Die	Silicon	0.0015	Silicon (Si)	7440-21-3	100	0.00152	19443
			Others	-	0.01	0.0000002	2
Die attach material	8290	0.0007	Proprietary Resin A	Proprietary	7	0.00005	649
			Proprietary Resin B	Proprietary	4	0.00003	371
			Silver (Ag)	7440-22-4	77	0.00056	7138
			Lactone	96-48-0	4	0.00003	371
			Polyoxypropylenediamine	Proprietary	4	0.00003	371
			2,6-Diglycidyl phenyl ether oligome	Proprietary	4	0.00003	371
Wire	Gold	0.00022	Gold (Au)	7440-57-5	99.99	0.00022	2843
			Others	-	0.01	0.00000002	0.3
Lead Finish	Tin	0.00136	Tin (Sn)	7440-31-5	99.99	0.00136	17391
			Others	-	0.01	0.0000001	2
Encapsulation	Epoxy Resin G600	0.04471	Silica Fused	60676-86-0	86	0.03845	490318
			Multi-aromatic Resin	Trade Secret	7.5	0.00335	42760
			Epoxy Cresol Novolac	Trade Secret	2	0.00089	11403
			Phenol Resin	Trade Secret	4	0.00179	22805
			Carbon Black	1333-86-4	0.5	0.00022	2851

Total package weight (g) 0.07843

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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