

8 Leads - SOIC
Package Material Declaration



Date	24-Oct-17	Product name	Integrated Circuit
Package Code	DC	RoHS Compliant	Y
Package Name	Plastic Small Outline 150mil	Halogen Free	Y
Product Total Mass (g)	0.07842	Plating	Pure Matte Sn

Product Number	MLX90109
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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 Alloy C194	0.02945	Copper (Cu)	7440-50-8	97.45	0.02870	365955
			Iron (Fe)	7439-89-6	2.4	0.00071	9013
			Zinc (Zn)	7440-66-6	0.12	0.00004	451
			Phosphorus (P)	7723-14-0	0.03	0.00001	113
Frame plating	Ag plating	0.00042	Silver (Ag)	7440-22-4	100	0.00042	5394
Die	Silicon IC	0.00153	Silicon (Si)	7440-21-3	99.99	0.00152	19444
			others	-	0.01	0.0000015	2
Die attach material	Epoxy 8290	0.00073	Epoxy resin A	Trade Secret	7	0.00005	649
			Epoxy resin B	Trade Secret	4	0.00003	371
			Silver (Ag)	7440-22-4	77	0.00056	7138
			Lactone	Trade Secret	4	0.00003	371
			Polyoxpropylenediamine	Trade Secret	4	0.00003	371
2,C-Diglycidyl phenyl allyl ether	Trade Secret	4	0.00003	371			
Wire	Gold	0.00022	Gold (Au)	7440-57-5	99	0.00022	2780
			Palladium (Pd)	7440-05-3	1	0.000002	28
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	Multi-aromatic Resin	Trade Secret	7.5	0.00335	42762
			SiO2 Filler	60676-86-0	86	0.03845	490335
			Carbon Black	1333-86-4	0.5	0.00022	2851
			Epoxy Cresol Novolac	Trade Secret	2	0.00089	11403
			Phenol Resin	Trade Secret	4	0.00179	22806

Total package weight (g) 0.07842

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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