

**8 Leads - SOIC**  
**Package Material Declaration**



Date	24-Nov-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** MLX81112

**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	97.45	0.02870	365966
			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	5356
Die	Silicon IC	0.00153	Silicon (Si)	7440-21-3	99.99	0.00153	19508
			other	-	0.01	0.000002	2
Die attach material	Epoxy 8290	0.00073	Silver (Ag)	7440-22-4	77	0.00056	7168
			Epoxy resin A	Trade Secret	7	0.00005	652
			Epoxy resin B	Trade Secret	4	0.00003	372
			Lactone	Trade Secret	4	0.00003	372
			Polyoxpropylenediamine	Trade Secret	4	0.00003	372
			2,C-Diglycidyl phenyl allyl ether oligomer	Trade Secret	4	0.00003	372
Wire	Gold	0.00022	Gold (Au)	7440-57-5	99	0.00022	2777
			Palladium (Pd)	7440-05-3	1	0.000002	28
Lead Finish	Tin	0.00136	Tin (Sn)	7440-31-5	99.99	0.00136	17341
			others	-	0.01	0.0000001	2
Encapsulation	Epoxy Resin G600	0.04471	Silica Fused	60676-86-0	86	0.03845	490316
			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)** 0.07842

**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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