

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



Date	20-Mar-18	Product name	Integrated Circuit
Package Code	DC	RoHS Compliant	Y
Package Name	Plastic Small Outline 150mil	Halogen Free	Y
Product Total Mass (g)	0.07926	Plating	Pure Matte Sn

<b>Product Number</b>	MLX90287
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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	0.0294	Copper (Cu)	7440-50-8	97.5	0.02868	361875
			Iron (Fe)	7439-89-6	2.35	0.00069	8722
			Zinc (Zn)	7440-66-6	0.03	0.00001	111
			Phosphor (P)	7723-14-0	0.12	0.00004	445
Plating	Silver	0.0004	Silver (Ag)	7440-22-4	100	0.00042	5331
Die	Silicon	0.0023	Silicon (Si)	7440-21-3	100	0.00227	28613
			Others	-	0.01	0.000002	3
Die attach material	8290	0.0010	Proprietary Resin A	Proprietary	7	0.00007	862
			Proprietary Resin B	Proprietary	4	0.00004	493
			Ag	7440-22-4	77	0.00075	9482
			Lactone	96-48-0	4	0.00004	493
			Polyoxypropylenediamine	Proprietary	4	0.00004	493
	2,6-Diglycidyl phenyl ether oligome	Proprietary	4	0.00004	493		
Wire	Palladium doped Gold	0.0001	Gold (Au)	7440-57-5	99	0.00010	1249
			Palladium (Pd)	7440-05-3	1	0.000001	13
Lead Finish	Tin	0.0014	Tin (Sn)	7440-31-5	99.99	0.00136	17212
			Others	-	0.01	0.0000001	2
Encapsulation	Epoxy Resin G600	0.04471	Silica Fused	60676-86-0	86	0.03845	485134
			Multi-aromatic Resin	Trade Secret	7.5	0.00335	42308
			Epoxy Cresol Novolac	Trade Secret	2	0.00089	11282
			Phenol Resin	Trade Secret	4	0.00179	22564
			Carbon Black	1333-86-4	0.5	0.00022	2821

**Total package weight (g)** 0.07926

**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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