

**8 Leads - SOIC, straight leads  
Package Material Declaration**



Date	20-Dec-18	Product name	Integrated Circuit
Package Code	DC	RoHS Compliant	Y
Package Name	Plastic Small Outline 150mil	Halogen Free	Y
Product Total Mass (g)	0.08461	Plating	Pure Matte Sn
<b>Product Number</b>	MLX90297		

**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	338997
			Iron (Fe)	7439-89-6	2.35	0.00069	8171
			Zinc (Zn)	7440-66-6	0.03	0.00001	104
			Phosphor (P)	7723-14-0	0.12	0.00004	417
Plating	Silver	0.0004	Silver (Ag)	7440-22-4	100	0.00042	4994
Die	Silicon	0.0023	Silicon (Si)	7440-21-3	99.99	0.00227	26804
			Others	-	0.01	0.0000002	3
Die attach material	8290	0.0010	Proprietary Resin	Proprietary	11	0.00011	1269
			Silver (Ag)	7440-22-4	77	0.00075	8883
			Lactone	96-48-0	4	0.00004	461
			Polyoxypropylenediamine	Proprietary	4	0.00004	461
			2,6-Diglycidyl phenyl ether oligomer	Proprietary	4	0.00004	461
Wire	Palladium coated Copper	0.0001	Copper (Cu)	7440-50-8	97.68	0.00010	1155
			Palladium (Pd)	7440-05-3	2.3	0.000002	27
			Others	-	0.02	0.00000002	0.2
Lead Finish	Tin	0.0014	Tin (Sn)	7440-31-5	99.99	0.00136	16124
			Others	-	0.01	0.0000001	2
Encapsulation	G700LS	0.0501	Epoxy Resin	Proprietary	11.5	0.00576	68042
			SiO2 Filler	60676-86-0	88	0.04405	520667
			Carbon Black	1333-86-4	0.5	0.00025	2958

**Total package weight (g)** 0.08461

**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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