

**8 Leads - SOIC**  
**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)	0.11142	Plating	Pure Matte Sn
<b>Product Number</b>	MLX91207		

**Material Declaration**

Part Name	Material Name	Component Weight (g)	Material Component (Element)	CAS #	Element ratio (%)	Material Weight (g)	Ratio total Wt (ppm)
Leadframe	Zirconium Copper C151	0.02402	Copper (Cu) (Remaining)	7440-50-8	99.94	0.02400	215435
			Zirconium (Zr) (0.05~0.15%)	7440-67-7	0.06	0.00001	129
Plating	Silver	0.00024	Silver (Ag)	7440-22-4	100	0.00024	2177
Die	Silicon	0.00263	Silicon (Si)	7440-21-3	99.99	0.00263	23603
			other	-	0.01	0.0000003	2
Die attach material	Non-conductive epoxy 8006NS	0.00113	Treated silica (5-10%)	Proprietary	8	0.00009	811
			Glycol ethers (10-30%)	Proprietary	22	0.00025	2231
			Metal Oxide (15-40%)	Proprietary	31	0.00035	3144
			Curing agent & hardener (5-10%)	Proprietary	8	0.00009	811
			Epoxy resin (15-40%)	Proprietary	31	0.00035	3144
Wire	Palladium doped Gold	0.00030	Gold (Au)	7440-57-5	99	0.00030	2666
			Palladium (Pd)	7440-05-3	1	0.000003	27
Lead Finish	Tin	0.00137	Tin (Sn)	7440-31-5	99.99	0.00137	12264
			other	-	0.01	0.00000014	1
Encapsulation	Epoxy resin G600C	0.08173	Silica Fused (75~95%)	60676-86-0	87.7	0.07168	643326
			Epoxy Resin (2~8%)	Proprietary	5	0.00409	36678
			Epoxy, Cresol Novolac (1~3%)	29690-82-2	2	0.00163	14671
			Phenol Resin (2~8%)	Proprietary	5	0.00409	36678
			Carbon Black (0.1~0.5%)	1333-86-4	0.3	0.00025	2201

**Total package weight (g)** 0.11142

**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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