

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



Date	10-Nov-16	Product name	Integrated Circuit
Package Code	DC	RoHS Compliant	Y
Package Name	Plastic Small Outline 150mil	Halogen Free	Y
Product Total Mass (g)	0.11181	Plating	Pure Matte Sn
<b>Product Number</b>	MLX90367		

**Material Declaration**

Part Name	Material Name	Component Weight (g)	Material Component (Element)	CAS #	Element ratio (%)	Material Weight (g)	Ratio total Wt (ppm)
Leadframe	Ag plated Cu C151	0.02425	Copper (Cu) (remaining)	7440-50-8	98.94	0.02399	214593
			Iron (Fe) (0.005 max)	7439-89-6	0.0001	0.0000002	0.2
			Manganese (Mn) (0.005 max)	7439-96-5	0.0001	0.0000002	0.2
			Aluminum (Al) (0.005 max)	7429-90-5	0.0005	0.0000001	1
			Zirconium (Zr) (0.05~0.15%)	7440-67-7	0.06	0.00001	130
			Silver (Ag) (0.5 ~ 1.5%)	7440-22-4	1	0.00024	2169
Die	Silicon IC	0.00302	Silicon (Si)	7440-21-3	99.99	0.00302	27008
			others	-	0.01	0.0000003	3
IMC	S-FeNi-8	0.000006	Iron (Fe)	7439-89-6	19.75	0.0000012	11
			Nickel (Ni) (0.0 ~ 80%)	7440-02-0	40	0.0000024	21
			Molybdenum (Mo) (0.0 ~ 80%)	7439-98-7	40	0.0000024	21
			others (max. 0.5%)	-	0.25	0.0000002	0.1
Die attach material	Conductive epoxy 84LMISR-4	0.00113	Silver Ag (70~85%)	7440-22-4	80	0.00090	8085
			Epoxy resin (5~25%)	Proprietary	15	0.00017	1516
			Aromatic amine (1~10%)	Proprietary	5	0.00006	505
Wire	Gold	0.00030	Gold (Au)	7440-57-5	99.99	0.00030	2683
			Others	-	0.01	0.0000003	0.3
Lead Finish	Alloy	0.00137	Tin (Sn)	7440-31-5	99.99	0.00137	12252
			Others	-	0.01	0.0000001	1
Encapsulation	Epoxy resin G600C	0.08173	Silica fused (75~95%)	60676-86-0	87.7	0.07168	641086
			Epoxy Resin (2~8%)	Proprietary	5	0.00409	36550
			Epoxy, Cresol Novolac (1~3%)	29690-82-2	2	0.00163	14620
			Phenol Resin (2~8%)	Proprietary	5	0.00409	36550
			Carbon Black (0.1~0.5%)	1333-86-4	0.3	0.00025	2193

Total package weight (g) 0.11181

**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

**Disclaimer**

"MELEXIS has taken every effort to ensure that the information provided in this document is correct, accurate and up-to-date.

MELEXIS, however, shall not be held liable for any improper or incorrect use of the information described and/or contained herein and assumes no responsibility whatsoever for recipient's or a third party's use of this information. In no event MELEXIS shall be held liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to: procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, tort (including negligence or otherwise), or any other theory arising in any way out of the use of this system, even if advised of the possibility of such damage.

This disclaimer of liability applies to any damages or injury, whether based on alleged breach of contract, tortious behavior, negligence or any other cause of action".

The content of this document is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.