

8 Leads - SOIC
Package Material Declaration



Date	25-May-18	Product name	Integrated Circuit
Package Code	DC	RoHS Compliant	Y
Package Name	Plastic Small Outline 150mil	Halogen Free	Y
Product Total Mass (g)	0.07446	Plating	Pure Matte Sn
Product Number	MLX90395		

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	0.02401	Copper (Cu)	7440-50-8	99.9	0.02399	322150
			Zirconium (Zr)	7440-67-7	0.1	0.00002	322
Leadframe Plating	Silver	0.00024	Silver Ag	7440-22-4	100	0.00024	3223
Die	Silicon	0.00302	Silicon (Si)	7440-21-3	99.99	0.00302	40557
			others	-	0.01	0.0000003	4
IMC	S-FeNi-8	0.000006	Iron (Fe)	7439-89-6	19.75	0.0000012	16
			Nickel (Ni) (0.0 ~ 80%)	7440-02-0	40	0.0000024	32
			Molybdenum (Mo) (0.0 ~ 80%)	7439-98-7	40	0.0000024	32
			others (max. 0.5%)	-	0.25	0.0000002	0.2
Die attach material	Conductive epoxy 8290	0.00113	Epoxy resin (10~30%)	Proprietary	15	0.00017	2277
			Gamma Butyrolactone (1~10%)	Proprietary	5	0.00006	759
			Amine (1~10%)	Proprietary	5	0.00006	759
			Metal Oxide (1~10%)	Proprietary	5	0.00006	759
			Silver Ag (70~90%)	7440-22-4	70	0.00079	10624
Wire	Gold	0.00030	Gold (Au)	7440-57-5	99	0.00030	3989
			Palladium (Pd)	7440-05-3	1	0.000003	40
Lead Finish	Alloy	0.00137	Tin (Sn)	7440-31-5	99.99	0.00137	18398
			Others	-	0.01	0.0000001	2
Encapsulation	Epoxy resin G700HA	0.04438	Silica fused (75~95%)	60676-86-0	87.7	0.03892	522742
			Epoxy Resin (4~10%)	Proprietary	7	0.00311	41724
			Phenol Resin (2~8%)	Proprietary	5	0.00222	29803
			Carbon Black (0.1~0.5%)	1333-86-4	0.3	0.00013	1788

Total package weight (g) 0.07446

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.