

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

Date	14-Aug-19	Product name	Integrated Circuit
Package Code	DC	RoHS Compliant	Y
Package Name	Plastic Small Outline 150mil	Halogen Free	Y
Product Total Mass (g)	0.07842	Plating	Pure Matte Sn

<b>Product Number</b>	TH8056
-----------------------	--------

**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	0.02945	Copper (Cu)	7440-50-8	97.45	0.02870	365979
			Iron (Fe)	7439-89-6	2.4	0.00071	9013
			Zinc (Zn)	7440-66-6	0.12	0.00004	451
			Phosphorus (P)	7723-14-0	0.03	0.00001	113
Frame plating	Silver	0.00042	Silver (Ag)	7440-22-4	100	0.00042	5394
Die	Silicon	0.00152	Silicon (Si)	7440-21-3	99.99	0.00152	19382
			others	-	0.01	0.00000015	2
Die attach material	Epoxy 8290	0.00073	Epoxy resin A	Trade Secret	7	0.00005	649
			Epoxy resin B	Trade Secret	4	0.00003	371
			Silver (Ag)	7440-22-4	77	0.00056	7139
			Lactone	Trade Secret	4	0.00003	371
			Polyoxpropylenediamine	Trade Secret	4	0.00003	371
			2,C-Diglycidyl phenyl allyl ether	Trade Secret	4	0.00003	371
Wire	Gold with Palladium	0.00022	Gold (Au)	7440-57-5	99	0.00022	2780
			Palladium (Pd)	7440-05-3	1	0.000002	28
Lead Finish	Tin	0.00136	Tin (Sn)	7440-31-5	99.99	0.00136	17392
			others	-	0.01	0.0000001	2
Encapsulation	Epoxy resin G600	0.04471	Multi-aromatic Resin	Trade Secret	7.5	0.00335	42765
			SiO2 Filler	60676-86-0	86	0.03845	490367
			Carbon Black	1333-86-4	0.5	0.00022	2851
			Epoxy Cresol Novolac	Trade Secret	2	0.00089	11404
			Phenol Resin	Trade Secret	4	0.00179	22808

**Total package weight (g)** 0.07842

**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.