

**4 Leads - VA**  
**Package Material Declaration**

Date	30-Nov-18	Product name	Integrated Circuit
Package Code	VA	RoHS Compliant	Y
Package Name	Plastic Single in Line, thickness 1.1-1.2mm	Halogen Free	Y
Product Total Mass (g)	0.34372	Plating	Pure Matte Sn

**Product Number** MLX91216

**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	0.12099	Copper (Cu)	7440-50-8	99.9	0.12087	351665
			Zirconium (Zr)	7440-67-7	0.1	0.00012	352
Plating	Silver	0.000008	Silver (Ag)	7440-22-4	100	0.00001	23
Die	Silicon	0.00393	Silicon (Si)	7440-21-3	99.99	0.00393	11433
			others	-	0.01	0.0000004	1
Die attach material	CRM1076WA	0.00066	Silver (Ag)	7440-22-4	82	0.00054	1579
			Epoxy resin	9003-36-5	10	0.00007	193
			Diluent	Trade Secret	2	0.00001	39
			Dicyandiamide	461-58-5	0.9	0.00001	17
			Hardener	Trade Secret	5.1	0.00003	98
Wire	Gold	0.00006	Gold (Au)	7440-57-5	99	0.00006	161
			Palladium (Pd)	7440-05-3	1	0.0000006	1.6
Lead Finish	Alloy	0.00007	Tin (Sn)	7440-31-5	99.99	0.00007	193
			Others	-	0.01	0.00000001	0.02
Encapsulation	G600	0.21800	Silica Fused	60676-86-0	87.5	0.19075	554964
			Epoxy Resin	Trade Secret	8	0.01744	50740
			Cresol Novolac	29690-82-2	1	0.00218	6342
			Phenol Resin	Trade Secret	3	0.00654	19027
			Carbon Black	1333-86-4	0.5	0.00109	3171

**Total package weight (g)** 0.34372

**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.