

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

Date	24-Apr-20	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)	0.1196	Plating	Pure Matte Sn

<b>Product Number</b>	MLX91209
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**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	0.0872	Copper (Cu)	7440-50-8	99.9	0.08713	728305
			Zirconium (Zr)	7440-67-7	0.1	0.00009	729
Plating	Silver	0.0004	Silver (Ag)	7440-22-4	100	0.00044	3663
Die	Silicon	0.0024	Silicon (Si)	7440-21-3	99.99	0.00235	19640
			others	-	0.01	0.0000002	2
Die attach material	Silver-Epoxy Adhesive CRM1076WA	0.0004	Silver (Ag)	7440-22-4	82	0.00029	2461
			Epoxy resin	9003-36-5	10	0.00004	300
			Additives	-	8	0.00003	240
Wire	Gold with Palladium	0.00001	Gold (Au)	7440-57-5	99	0.00001	92
			Palladium (Pd)	7440-05-3	1	0.0000001	1
Lead Finish	Tin	0.0038	Tin (Sn)	7440-31-5	99.99	0.00384	32093
			Others	-	0.01	0.0000004	3
Encapsulation	Silica EP G600	0.0254	Epoxy resin	Trade secret	6.25	0.00159	13274
			Epoxy Cresol Novolac	29690-82-2	2.5	0.00064	5310
			Phenol resin	Trade secret	2.5	0.00064	5310
			Carbon black	1333-86-4	0.5	0.00013	1062
			Silica fused	60676-86-0	82	0.02084	174157
			Silica crystalline*	7631-86-9	6.25	0.00159	13274
Ink marking	Acrylic lacquer 9060	0.00001	Aluminum (Al)	7429-90-5	30	0.000003	25
			Pentaerythritol Triacrylate	3524-68-3	30	0.000003	25
			Acrylate	Trade Secret	30	0.000003	25
			Methoxyphenol	150-76-5	0.1	0.00000001	0.1
			others	-	9.9	0.000001	8

**Total package weight (g)** 0.1196

**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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