

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

Date	19-Feb-18	Product name	Integrated Circuit
Package Code	DC	RoHS Compliant	Y
Package Name	Plastic Small Outline, 150 mil	Halogen Free	Y
Product Total Mass (g)	0.10748	Plating	Pure Matte Sn
<b>Product Number</b>	MLX91220		

**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	0.05701	Copper (Cu)	7440-50-8	99.9	0.05695	529883
			Zirconium (Zr)	7440-67-7	0.1	0.00006	530
Die	Die Silicon (76x96x10 mils)	0.00285	Silicon (Si)	7440-21-3	99.99	0.00285	26541
			others	-	0.01	0.0000003	3
RDL/Repassivation/Bumps on Die	Polyimide (PI1~3)	0.00017	HD4110	Trade Secret	100	0.00017	1551
			Titanium (Ti)	7440-32-6	99.99	0.000001	12
	Cu (UBM/RDL/Post)	0.00005	others	-	0.01	0.000000001	0.001
			Copper (Cu)	7440-50-8	87	0.00004	406
			Tin (Sn)	7440-31-5	5	0.000003	23
			Silver (Ag)	7440-22-4	3	0.000002	14
others	-	5	0.0000251	23			
Lead Finish	Tin	0.00140	Tin (Sn)	7440-31-5	99.99	0.00140	13024
			others	-	0.01	0.0000001	1
Encapsulation	G770HCD	0.04600	Silica (Amorphous) A	60676-86-0	78.5	0.03609	335756
			Silica (Amorphous) B	7631-86-9	15	0.00690	64198
			Epoxy Resin	Trade Secret	3	0.00138	12840
			Phenol Resin	Trade Secret	3	0.00138	12840
			Carbon Black	1333-86-4	0.55	0.00025	2354

**Total package weight (g)** 0.10748

**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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