

16 Leads - FC SOIC
Package Material Declaration

Date	19-Feb-18	Product name	Integrated Circuit
Package Code	DF	RoHS Compliant	Y
Package Name	Plastic Small Outline, 300 mil	Halogen Free	Y
Product Total Mass (g)	0.52378	Plating	Pure Matte Sn
Product Number	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	0.23182	Copper (Cu)	7440-50-8	99.9	0.23159	442151
			Zirconium (Zr)	7440-67-7	0.1	0.00023	443
Die	Die Silicon (76x96x10 mils)	0.00542	Silicon (Si)	7440-21-3	99.99	0.00542	10347
			others	-	0.01	0.0000005	1
RDL/Repassivation/Bumps on Die	Polymide (PI1~3)	0.00017	HD4110	Trade Secret	100	0.00017	318
	Ti (UBM 1~3)	0.000001	Titanium (Ti)	7440-32-6	99.99	0.000001	2
			others	-	0.01	0.0000000001	0.0002
	Cu (UBM/RDL/Post)	0.00005	Copper (Cu)	7440-50-8	87	0.00004	83
			Tin (Sn)	7440-31-5	5	0.000003	5
			Silver (Ag)	7440-22-4	3	0.000002	3
others	-	5	0.00000251	4.79			
Lead Finish	Tin	0.00160	Tin (Sn)	7440-31-5	99.99	0.00160	3054
			others	-	0.01	0.0000002	0.3
Encapsulation	G770HCD	0.28472	Silica (Amorphous) A	60676-86-0	78.5	0.22336	426444
			Silica (Amorphous) B	7631-86-9	15	0.04271	81538
			Epoxy Resin	Trade Secret	3	0.00854	16308
			Phenol Resin	Trade Secret	3	0.00854	16308
			Carbon Black	1333-86-4	0.55	0.00157	2990

Total package weight (g) 0.52378

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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