

5 Leads - SFN 3x3
Package Material Declaration

Date	16-Apr-20	Product name	Integrated Circuit
Package Code	LD	RoHS Compliant	Y
Package Name	Ultra Thin Leadframe Package Double	Halogen Free	Y
Product Total Mass (g)	0.0264	Plating	NiPdAu

Product Number	MLX90632
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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	Copper Alloy C7025	0.0130	Copper (Cu)	7440-50-8	96.2	0.01255	476177
			Silicon (Si)	7440-21-3	0.65	0.00008	3217
			Nickel (Ni)	7440-02-0	3	0.00039	14850
			Magnesium (Mg)	7439-95-4	0.15	0.00002	742
Plating	Ni/Pd/Au/Ag	0.0002	Nickel (Ni)	7440-02-0	97.54	0.00020	7720
			Palladium (Pd)	7440-05-3	2.07	0.000004	164
			Gold (Au)	7440-57-5	0.22	0.0000005	17
			Silver (Ag)	7440-22-4	0.17	0.0000004	13
Die 1	Silicon IC	0.0029	Silicon (Si)	7440-21-3	99.99	0.00286	108668
			others	-	0.01	0.0000003	11
Die 2	Silicon IC	0.0039	Silicon (Si)	7440-21-3	99.99	0.00389	147521
			others	-	0.01	0.0000004	15
Die attach material	Semicosil 988	0.0002	Polysiloxane(di-Me),vinyl-terminated	68083-19-2	75	0.00016	6183
			Treated silica	Proprietary	21	0.00005	1731
			(3-(2,3-Epoxypropoxyl)propyl)trimethoxysiloxane	2530-83-8	1.98	0.000004	163
			Polysiloxane(di-Me, Me H)	68037-59-2	1.8	0.000004	148
			Polysiloxane (di- Me Vi)	67762-94-1	0.218	0.0000005	18
			Platinum catalyst	Proprietary	0.002	0.000000004	0.2
Wire	Gold with Palladium	0.00001	Gold (Au)	7440-57-5	99	0.00001	253
			Palladium (Pd)	7440-05-3	1	0.00000007	3
Leadfinish	Ni/Pd/Au/Ag	0.00004	Nickel (Ni)	7440-02-0	88.26	0.00004	1470
			Palladium (Pd)	7440-05-3	5.24	0.000002	87
			Gold (Au)	7440-57-5	3.64	0.000002	61
			Silver (Ag)	7440-22-4	2.86	0.000001	48
Encapsulation	Epoxy Resin EMEG700LTD	0.0061	Silica (Amorphous) A	60676-86-0	80	0.00486	184575
			Silica (Amorphous) B	7631-86-9	7.5	0.00046	17304
			Epoxy resin	Proprietary	7.5	0.00046	17304
			Phenol resin	Proprietary	2	0.00012	4614
			Metal hydroxide	Proprietary	2	0.00012	4614
			Carbon Black	1333-86-4	1	0.00006	2307

Total package weight (g) 0.0264

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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