

3 Leads - TO92
Package Material Declaration



Date	19-Feb-20	Product name	Integrated Circuit
Package Code	UA	RoHS Compliant	Y
Package Name	Plastic Single in Line, Through Hole Mount	Halogen Free	Y
Product Total Mass (g)	0.09679	Plating	Pure Matte Sn

Product Number	MLX90290
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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-Tin-Phosphorous Alloy EFTEC-3S	0.06683	Copper (Cu)	7440-50-8	99.84	0.06672	689343
			Tin (Sn)	7440-31-5	0.15	0.00010	1036
			Phosphorus (P)	7723-14-0	0.01	0.00001	69
Frame plating	Silver	0.00144	Silver (Ag)	7440-22-4	100	0.00144	14876
Die	Silicon	0.00056	Silicon (Si)	7440-21-3	99.99	0.00056	5805
			others	-	0.01	0.0000001	1
Die attach material	Silver paste CRM-1033BF	0.00007	Silver (Ag)	7440-22-4	70	0.00005	495
			Epoxy resin	9003-36-5	20	0.00001	142
			t-butyl phenyl glycidyl ether	3101-60-8	8	0.00001	57
			Phenolic resin	92-88-6	1	0.000001	7
			Butyl cellosolve acetate	112-07-2	1	0.00000	7
Wire	Gold with Palladium	0.00019	Gold (Au)	7440-57-5	99	0.00019	1934
			Palladium (Pd)	7440-05-3	1	0.00000189	20
Lead Finish	Tin	0.00259	Tin (Sn)	7440-31-5	99.99	0.00259	26744
			others	-	0.01	0.0000003	3
Encapsulation	Silica EP G600	0.02511	Epoxy resin	Trade secret	6.25	0.00157	16216
			Epoxy Cresol Novolac	29690-82-2	2.5	0.00063	6487
			Phenol resin	Trade secret	2.5	0.00063	6487
			Carbon black	1333-86-4	0.5	0.00013	1297
			Silica fused	60676-86-0	82	0.02059	212760
			Silica crystalline*	7631-86-9	6.25	0.00157	16216

Total package weight (g) 0.09679

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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