

3 Leads - TO92
Package Material Declaration

Date	28-Aug-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)	0.09763	Plating	Pure Matte Sn

Product Number	MLX92242
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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	0.06601	Copper (Cu)	7440-50-8	99.84	0.06591	675092
			Tin (Sn)	7440-31-5	0.15	0.00010	1014
			Phosphorus (P)	7723-14-0	0.01	0.00001	68
Plating	Silver	0.00040	Silver (Ag)	7440-22-4	100	0.00040	4082
Die	Silicon	0.00076	Silicon (Si)	7440-21-3	99.99	0.00076	7784
			others	-	0.01	0.0000001	1
Die attach material	Silver paste CRM-1033BF	0.00014	Silver (Ag)	7440-22-4	70	0.00010	1004
			Epoxy resin	9003-36-5	20	0.00003	287
			Misc., others	-	10	0.00001	143
Wire	Gold with Palladium	0.00005	Gold (Au)	7440-57-5	99	0.00005	526
			Palladium (Pd)	7440-05-3	1	0.0000005	5
Lead Finish	Tin	0.00189	Tin (Sn)	7440-31-5	99.99	0.00189	19391
			others	-	0.01	0.0000002	2
Encapsulation	Silica EP KE-G1250DS-X6	0.02837	Silica fused	60676-86-0	84.5	0.02397	245558
			Phenol resin	-	10	0.00284	29060
			Epoxy resin	-	5	0.00142	14530
			Carbon black	1333-86-4	0.5	0.00014	1453

Total package weight (g) 0.09763

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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