

48 Leads - TQFP EP 7x7
Package Material Declaration



Date	06/01/2017	Product name	Integrated Circuit
Package Code	PF	RoHS Compliant	Y
Package Name	Thin Quad Flat Package	Halogen Free	Y
Product Total Mass (g)	0.15040	Plating	electroplating+Sn immersion

Product Number MLX83203

Material Declaration

Part Name	Material Name	Component Weight (g)	Material Component (Element)	CAS #	Element ratio (%)	Material Weight (g)	Ratio total Wt (ppm)
Leadframe	C18045	0.05205	Copper (Cu)	7440-50-8	99.25	0.05166	343520
			Chromium (Cr)	7440-47-3	0.3	0.00016	1038
			Tin (Sn)	7440-31-5	0.250	0.00013	865
			Zinc (Zn)	7440-66-6	0.200	0.00010	692
Frame Plating	Ag plating	0.00085	Silver (Ag)	7440-22-4	100	0.00085	5638
Die	Silicon	0.02619	Silicon (Si)	7440-21-3	99.99	0.02618	174104
			other	-	0.01	0.0000026	17
Die attach material	3230	0.00480	Resin	Proprietary	20	0.00096	6383
			Silver (Ag)	7440-22-4	70	0.00336	22339
			Anhydride	Proprietary	10	0.00048	3191
Wire	HTS (Pd doped)	0.00126	Gold (Au)	7440-57-5	99	0.00124	8262
			Palladium (Pd)	7440-05-3	1	0.00001	83
Lead Finish	Matte Tin	0.00496	Tin (Sn)	7440-02-0	99.99	0.00496	33003
			other	7440-05-3	0.01	0.0000005	3
Encapsulation	G700L	0.06029	Multi Aromatic Resin	Proprietary	11.5	0.00693	46099
			Silica Fused	60676-86-0	88	0.05305	352758
			Carbon Black	1333-86-4	0.45	0.00027	1804
			Other Bismuth compounds	Proprietary	0.05	0.00003	200

Total package weight (g) 0.15040

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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