

Device Material Content

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Hillsboro OR 97124 Package: 48 TQFP (1.0mm) with matte Sn Plating

Total Device Weight 0.14 Grams MSL: 3

Peak Reflow Temp: 260°C

Halogen Free

November, 2010	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS#	Notes / Assumptions:
Die	2.12%	0.003			Silicon chip	7440-21-3	Die size: 2.00 x 2.20 mm
Mold	70.17%	0.0982	59.64% 4.21% 3.51% 0.28% 2.53%	0.0835 0.0059 0.0049 0.0004 0.0035	Silica Fused Epoxy Resin Phenol Resin Carbon black Other (trade secret)	60676-86-0 - - 1333-86-4	Mold Compound Density between 1.7 and 2.1 grams/cc 75 to 95% (LSC uses 85% in our calculation) 3 to 10% (LSC uses 6% in our calculation) 2 to 8% (LSC uses 5% in our calculation) 0.1 to 0.5% (LSC uses 0.4% in our calculation) 0 to 5% (LSC uses 3.6% in our calculation)
D/A Epoxy	0.32%	0.0004	0.26% 0.06%	0.0004 0.0001	Silver (Ag) Other	7440-22-4	Die attach epoxy Density: 4 grams/cc (silver content: 70-90%; LSC uses 80% in our calculation)
Wire	1.01%	0.0014			Gold (Au)	7440-57-5	1.00 mil diameter; 1 wire per package lead; wire length 3 mm
Lead Plating	4.06%	0.0057			Tin (Sn)	7440-31-5	Plating is 100% Sn; thickness is 0.015mm
Leadframe	22.32%	0.0313	21.47% 0.67% 0.15% 0.03%	0.0301 0.0009 0.00020 0.00005	Copper (Cu) Nickel (Ni) Silicon (Si) Magnesium (Mg)	7440-50-8 7440-02-0 7440-21-3 7439-95-4	Leadframe thickness is nominal (per Case Outline) 96.2% Cu 3% Ni 0.65% Si 0.15% Mg

Notes

The values listed above are nominal values based on studies of representatives of this particular package type, and are believed to be as accurate as possible. Constituent substances and proportions in epoxy materials are before curing.

The information provided above is representative of the package as of the date listed, and is subject to change at any time.

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Rev. A