

Device Material Content

5555 NE Moore Ct.

Package: 176 TQFP (1.4mm) with matte Sn Plating Hillsboro OR 97124

MSL: 3

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Total Device Weight 1.90 Grams

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	0.89%	0.017			Silicon chip	7440-21-3	Die size: 4.00 x 5.05 mm
Mold	78.30%	1.488	66.55% 4.70% 3.91% 0.31% 2.82%	1.264 0.089 0.074 0.006 0.054	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	0.11%	0.002	0.09% 0.02%	0.0016 0.0004	Silver (Ag) Esters & resins	7440-22-4	(silver content: 70-90%; LSC uses 80% in our calculation) Die attach epoxy Density: 4 grams/cc
Wire	0.27%	0.005			Gold (Au)	7440-57-5	0.8 to 1.0 mil diameter; 1 wire per package lead; wire length 3 mm
Lead Plating	1.10%	0.021			Tin (Sn)	7440-31-5	Plating is 100% Sn; thickness is 0.015mm
Leadframe	19.33%	0.367	18.60% 0.58% 0.13% 0.03%	0.353 0.0110 0.0024 0.0006	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

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