

Device Material Content

5555 NE Moore Ct.

Hillsboro OR 97124 Package: 48 TQFP (1.4mm) with matte Sn Plating Halogen Free

 custreq@lscc.com
 Total Device Weight
 0.18
 Grams
 MSL: 3

Peak Reflow Temp: 260°C

February, 2012	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS#	Notes / Assumptions:
Die	2.05%	0.0037			Silicon chip	7440-21-3	Die size: 2.00 x 2.20 mm
Mold	76.58%	0.138	65.09% 4.59% 3.83% 0.31% 2.76%	0.117 0.0083 0.0069 0.0006 0.0050	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 80 to 90% Silica Fused (LSC uses 85% in our calculation) 5 to 10% Epoxy Resin (LSC uses 6% in our calculation). 5 to 10% Phenol Resin (LSC uses 5% in our calculation). 0.1 to 1% Carbon black (LSC uses 0.4% in our calculation) 1 to 4% Other (LSC uses 3.6% in our calculation)
D/A Epoxy	0.25%	0.0004	0.20% 0.05%	0.0004 0.0001	Silver (Ag) other	7440-22-4	(silver content: 70-90%; LSC uses 80% in our calculation) Die attach epoxy Density: 4 grams/cc
Wire	0.78%	0.0014			Gold (Au)	7440-57-5	0.8 to1.0 mil diameter; 1 wire per package lead; wire length 3 mm
Lead Plating	2.98%	0.0054			Tin (Sn)	7440-31-5	Plating is 100% Sn; thickness is 0.015mm
Leadframe	17.36%	0.0313	16.70% 0.52% 0.11% 0.03%	0.0301 0.00094 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