

Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124	Package: Total Device Weight		144 TQFP (1.4mm)		with matte Sn Plating	Copper Bond Wire Version	
custreq@lscc.com			1.40	Grams	_	Halogen Free MSL: 3 - Peak Reflow Temp: 260°C	
August, 2012	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS#	Notes / Assumptions:
Die	1.20%	0.0170			Silicon chip	7440-21-3	Die size: 4.00 x 5.05 mm
Mold	79.25%	1.1095	68.79% 6.34% 3.17% 0.79% 0.16%	0.9630 0.0888 0.0444 0.0111 0.0022	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%	0.0015	0.09% 0.02%	0.0012 0.0003	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	0.09%	0.0012			Copper (Cu)	7440-50-8	0.8 to 1.0 mil diameter; 1 wire per package lead; wire length 3 mm
Lead Plating	1.13%	0.0159			Tin (Sn)	7440-31-5	Plating is 100% Sn; thickness is 0.015mm
Leadframe	18.22%	0.2550	17.53% 0.55% 0.12% 0.03%	0.2454 0.0077 0.0017 0.0004	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. E