

## **Device Material Content**

5555 NE Moore Ct. Hillsboro OR 97124 (503) 268-8000

Package: 128 PQFP with SnPb Plating

Total Device Weight 5.30 Grams MSL: 3

custreq@lscc.com

Peak Reflow Temp: 225°C

August, 2008	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS#	Notes / Assumptions:
Die	1.92%	0.102			Silicon chip	7440-21-3	Die size: 7.4mm x 9.3mm
Mold	86.41%	4.580	75.78% 6.05% 4.32% 0.26%	4.017 0.321 0.229 0.014	Silica Fused Epoxy Resin Phenol Resin Carbon black	60676-86-0 - - 1333-86-4	Mold Compound Density varies between 1.7 and 2.3 grams/cc 75 to 95% Silica Fused (LSC uses 87.7% in our calculation) 4 to 10% Epoxy Resin (LSC uses 7% in our calculation). 2 to 8% Phenol Resin (LSC uses 5% in our calculation). 0.1 to 0.5% Carbon black (LSC uses 0.3% in our calculation)
D/A Epoxy	0.13%	0.007	0.11% 0.03%	0.006 0.001	Silver-filled Epoxy Silver (Ag) other	7440-22-4	Die attach epoxy Density: 4 grams/cc (silver content: 70-90%; LSC uses 80% in our calculation)
Wire	0.07%	0.004			Gold (Au)	7440-57-5	1.0 mil wire diameter; 1 wire for each package lead; wire length 3 mm
Lead Plating	0.58%	0.031	0.49% 0.09%	0.026 0.005	Tin (Sn) Lead (Pb)	7440-31-5 7439-92-1	Nominal: 85% Sn, 15% Pb Thickness is 0.015mm
Leadframe	10.89%	0.577	10.47% 0.33% 0.07% 0.02%	0.555 0.0173 0.004 0.0009	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 3.0% 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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