

Device Material Content

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

Package: 44 PLCC with Matte Sn Plating

Total Device Weight 2.18 Grams

August, 2008	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS#	Notes / Assumptions:
Die	0.53%	0.012			Silicon chip	7440-21-3	Die size: 3.5 x 2.8 mm
Mold	84.69%	1.846	74.28% 4.23% 4.23% 1.69% 0.25%	1.619 0.092 0.092 0.037 0.006	Silica Fused Epoxy Resin Phenol Resin Epoxy Cresol Novolac Carbon black	9003-35-4	Mold Compound Density between 1.8 and 2.0 grams/cc 75 to 95% Silica Fused (LSC uses 87.7% in our calculation) 2 to 8% Epoxy Resin (LSC uses 5% in our calculation). 3 to 8% Phenol Resin (LSC uses 5% in our calculation). 0 to 3% Epoxy Cresol Novolac (LSC uses 2% in our calculation). 0.1 to 0.5% Carbon black (LSC uses 0.3% in our calculation)
D/A Ерох у	0.05%	0.001	0.04% 0.01%	0.0008 0.0002	Silver (Ag) other	7440-22-4	Die attach epoxy Density: 4 grams/cc Silver content: 60-100% (LSC uses 80% in our calculation)
Wire	0.09%	0.002			Gold (Au)	7440-57-5	1.00 mil diameter; 1 wire per package lead; wire length 3 mm
Lead Plating	0.46%	0.010			Tin (Sn)	7440-31-5	Plating is 100% Sn; thickness is >10.2um
Leadframe	14.18%	0.309	13.97% 0.177% 0.004% 0.020% 0.011%	0.305 0.0039 0.0001 0.0004 0.00025	Copper (Cu) Iron (Fe) Phosphorus (P) Zinc (Zn) Zirconium (Zr)	7439-89-6 7723-14-0 7440-66-6	Leadframe thickness is nominal (per Case Outline) Cu (LSC uses 98.5% in our calculation) 0 to 2.35% Fe (LSC uses 1.25% in our calculation) 0 to 0.07% P (LSC uses 0.03% in our calculation) 0.12 to 0.15% Zn (LSC uses 0.14% in our calculation) 0 to 0.15% Zr (LSC uses 0.08% in our calculation)

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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