

Device Material Content

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Total Device Weight

Of Total Pkg.
Wt.

Weight (g)

Weight (g)

Silicon chip

7440.21.3 | Die size: 59 x 59 mil

August, 2012	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS#	Notes / Assumptions:
Die	4.95%	0.0013			Silicon chip	7440-21-3	Die size: 59 x 59 mil
Mold	62.85%	0.0165	56.57% 3.46% 2.83%	0.0148 0.0009 0.0007	Silica Epoxy Resin Phenol Resin	60676-86-0 Trade secret Trade secret	Mold Compound: KEG1250 LKDS 75 to 95% Fused silica filler (LSC uses 90% in our calculation) 1 to 10% Epoxy resin (LSC uses 5.5% in our calculation) 2 to 7% Phenol resin (LSC uses 4.5% in our calculation)
D/A Tape	0.15%	0.00006	0.03% 0.03% 0.01% 0.17%	0.000008 0.000008 0.000004 0.000044	Epoxy Resin Phenol Resin SiO2 Filler (Meta)Acrylic Copolymer	Trade secret Trade secret Trade secret Trade secret	TAPE FH-900T-25_HR9004 10 to 20% (LSC uses 12% in our calculation) 10 to 20% (LSC uses 12% in our calculation) 1 to 10% (LSC uses 6% in our calculation) 65 to 75% (LSC uses 70% in our calculation)
Wire	1.05%	0.0003	1.022% 0.028%	0.00027 0.00001	Copper (Cu) Palladium (Pd)	7440-50-8 7440-05-3	0.7 MIL Pd COATED Cu 97.30% 2.70%
Solder Balls	2.66%	0.00070	2.62% 0.03% 0.01%	0.00069 0.00001 0.000003	Tin (Sn) Silver (Ag) Copper (Cu)	7440-31-5 7440-22-4 7440-50-8	10 mils Sn98.5 / Ag1.0 / Cu0.5 (SAC105)
Substrate	28.25%	0.00740	12.91% 3.23% 8.07% 1.34% 0.05% 2.69%	0.00338 0.00085 0.00211 0.00035 0.00001 0.00070	BT Resin CCL-HL832NX Copper (Cu) Soldermask AUS 308 Nickel Plating Gold Plating Copper thickness in hole	Trade secret 7440-50-8 Trade secret 7440-02-0 7440-57-5 7440-50-8	CCL-HL832NX(A-HS) / AUS 308 45.71% 11.43% 28.57% 4.76% 0.19% 9.52%

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. P