

Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124

Package:

160 PQFP

with SnPb Plating

(503) 268-8000

Total	Device	Weight	5.60	Gram
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August, 2008	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS#	Notes / Assumptions:
Die	1.82%	0.102			Silicon chip	7440-21-3	Die size: 7.4mm x 9.3mm
Mold	87.06%	4.875	76.35% 6.09% 4.35% 0.26%	4.275 0.341 0.244 0.015	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	0.12%	0.007	0.10% 0.02%	0.006 0.0014	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	0.08%	0.005			Gold (Au)	7440-57-5	1.0 mil wire diameter; 1 wire for each package lead; wire length 3 mm
Lead Plating	0.62%	0.034	0.52% 0.09%	0.029 0.005	Tin (Sn) Lead (Pb)	7440-31-5 7439-92-1	Nominal: 85% Sn, 15% Pb Thickness is 0.015mm
Leadframe	10.30%	0.577	9.91% 0.31% 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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