



Device Material Content

5555 NE Moore Ct.
Hillsboro OR 97124
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Package: 16 PDIP with SnPb Plating
Total Device Weight 1.01 Grams

April, 2004	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS #	Notes / Assumptions:
Die	2.77%	0.029			Silicon	7440-21-3	Die size: 4.0 x 6.0 mm.
Mold	66.87%	0.675	46.61%	0.471	Silica	60676-86-0	Mold Compound Density varies between 1.7 and 2.3 grams/cc 60 to 90% Silica Fused (LSC uses 69.7% in our calculation) 15 to 40% Epoxy Resin (LSC uses 25% in our calculation). o NOTE: Total includes Phenol and Epoxy resins (exact % is Trade secret) 1% to 5% Antimony Trioxide (LSC uses 3% in our calculation) 1 to 3% Brominated Epoxy Resin (LSC uses 2% in our calculation). 0.1 to 0.5% Carbon black (LSC uses 0.3% in our calculation)
			16.72%	0.169	Epoxy Resin	129915-35-1	
			2.01%	0.020	Antimony Trioxide	1309-64-4	
			1.34%	0.014	Brominated Epoxy resin	68928-70-1	
			0.20%	0.002	Carbon black	1333-86-4	
D/A Epoxy	0.24%	0.002	0.19%	0.002	Silver-filled Epoxy	7440-22-4	Die attach epoxy Density: 4 grams/cc (silver content: 60-100%; LSC uses 80% in our calculation)
			0.05%	0.0005	Silver (Ag) other	-	
Wire	0.07%	0.001			Gold (Au)	7440-57-5	1.2 mil wire diameter; 1 wire for each package lead; wire length 3 mm
Lead Plating	2.34%	0.024	1.99%	0.020	Tin (Sn)	7440-31-5	Nominal: 85% Sn, 15% Pb Thickness is 0.015mm
			0.35%	0.004	Lead (Pb)	7439-92-1	
Leadframe	27.71%	0.280	27.01%	0.273	Copper (Cu)	7440-50-8	Leadframe composition (C194): 97.46% Cu 2.35% Fe 0.12% Zn 0.07% P Leadframe thickness is nominal (per Case Outline).
			0.65%	0.007	Iron (Fe)	7439-89-6	
			0.03%	0.0003	Zinc (Zn)	7440-66-6	
			0.02%	0.0002	Phosphorus (P)	7723-14-0	

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.

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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