



Device Material Content

5555 NE Moore Ct.
Hillsboro OR 97124
custreq@lsc.com

Package: 208 ftBGA Side-by-side (dual-die)
Total Device Weight 0.750 Grams with SnAgCu Solder Balls

Halogen Free
MSL: 3
Peak Reflow Temp: 260°C

February, 2012	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS #	Notes / Assumptions:
Die	1.48%	0.0111			Silicon chip	7440-21-3	Die size: 3.25 x 3.25 mm + 2.65 x 2.65 mm
Mold	54.91%	0.412	50.52%	0.3789	Silica	60676-86-0	Mold Compound: Kyocera G2250LKDS series 75 to 95% Fused silica filler (LSC uses 92% in our calculation) 1 to 10% Epoxy resin (LSC uses 5% in our calculation) 2 to 7% Phenal resin (LSC uses 3% in our calculation) Mold Compound Density ranges between 1.85 and 2.15 grams/cc
			2.75%	0.0206	Epoxy Resin	-	
			1.65%	0.0124	Phenol Resin	-	
D/A Epoxy	0.24%	0.0018	0.19%	0.0014	Silver-filled epoxy	7440-22-4	Die Attach: Ablebond 2100A 70 to 100% Silver (LSC uses 80% in our calculation) 7 to 40% Organic Esters and Resins (LSC uses 20% in our calculation) Die attach epoxy Density: 4 grams/cc
			0.05%	0.0004	Organic esters and resins	-	
Wire	0.40%	0.0030			Gold (Au)	7440-57-5	0.7 mil Au wire
Solder Balls	13.46%	0.1009	12.99%	0.0974	Tin (Sn)	7440-31-5	Solder ball composition Sn96.5%/Ag3.0%/Cu0.5%
			0.40%	0.0030	Silver (Ag)	7440-22-4	
			0.07%	0.0005	Copper (Cu)	7440-50-8	
Substrate	21.27%	0.1595	14.46%	0.1085	Glass fiber	65997-17-3	60 to 75% glass fiber (LSC uses 68% in our calculation)
			6.81%	0.0510	BT Resins	-	
Foil	8.25%	0.0619			Copper (Cu)	7440-50-8	

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.

www.latticesemi.com

