



Device Material Content

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Assembly: ASEM
Size (mm): 27 x 27

Package Code:

BG756

Lead pitch (mm): 0.8

MSL: 3

Reflow max (°C): 260

Package: 756 caBGA

Total Device Weight 2.483 Grams

Products:

FE5

June, 2020

	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS #	% of Subst.	Notes / Assumptions:
Die	1.07%	0.0266	1.07%	0.0266	Silicon chip	7440-21-3	100.00%	Die size: 6.55 x 7.04 mm
Mold Compound	44.79%	1.1122	3.14%	0.0779	Epoxy Resin	-	7.00%	Mold Compound: Sumitomo G750SE (ULA)
			2.24%	0.0556	Phenol Novolac	9003-35-4	5.00%	
			2.24%	0.0556	Metal Hydroxide	-	5.00%	
			0.22%	0.0056	Carbon Black	1333-86-4	0.50%	
			36.95%	0.9176	Silica Fused	60676-86-0	82.50%	
D/A Epoxy	0.16%	0.0040	0.13%	0.00318	Silver	7440-22-4	80.00%	Die attach epoxy: Henkel (Ablebond) 2100A
			0.03%	0.00079	Esters & resins	-	20.00%	
Wire	0.20%	0.0050	0.20%	0.0049	Copper	7440-50-8	98.50%	0.8 mil diameter; 1 wire per solder ball
			0.00%	0.0001	Palladium	7440-05-3	1.50%	
Solder Balls	7.59%	0.1885	7.32%	0.1819	Tin (Sn)	7440-31-5	96.50%	SAC305
			0.23%	0.0057	Silver (Ag)	7440-22-4	3.00%	
			0.04%	0.0009	Copper (Cu)	7440-50-8	0.50%	
Substrate	30.02%	0.7455	9.31%	0.2311	BT Resins	-	31.00%	BT Resin CCL-HL832NX-A*
			20.42%	0.5070	Glass fiber	65997-17-3	68.00%	
			0.30%	0.0075	Bisphenol A	80-05-7	1.00%	
Foil	11.22%	0.2786	9.49%	0.2356	Copper	7440-50-8	84.56%	
			1.65%	0.0409	Nickel plating	7440-02-0	14.70%	
			0.08%	0.0021	Gold plating	7440-57-5	0.74%	
Solder Mask	4.95%	0.1228	2.78%	0.0690	Quartz	14808-60-7	56.20%	Solder mask PSR4000 AUS 308
			0.79%	0.0197	3-methoxy-3-methylbutylacetate	103429-90-9	16.00%	
			1.09%	0.0270	Barium Sulfate	7727-43-7	22.00%	
			0.15%	0.0037	Talc	14807-96-6	3.00%	
			0.02%	0.0006	Naphthalene	91-20-3	0.50%	
			0.11%	0.0028	Trade secret ingredients	-	2.30%	

Notes: SVHC: * 0.30% max. concentration of Bisphenol A (CAS# 80-05-7), contained in substrate laminate material as impurity - not intentionally added.

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