



Device Material Content

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Package: 80 ctfBGA
Total Device Weight 67.12 Milligrams (Mg)

Package Code:

JMG80

Products:

LIF-MD6000 (Crosslink)

Assembly: ASET

Size (mm): 6.5 x 6.5

Lead pitch (mm): 0.65

MSL: 3

Reflow max (°C): 260

	% of Total Pkg. Wt.	Weight (Mg)	% of Total Pkg. Wt.	Weight (Mg)	Substance	CAS #	% of Subst.	Notes / Assumptions:
Die	7.78%	5.225	7.7844%	5.2250	Silicon chip	7440-21-3	100.00%	Die size: 2.51 x 2.56 mm
Substrate	22.44%	15.062	7.553% 0.615% 0.194% 0.194% 0.129% 0.486% 13.264% 0.004%	5.0699 0.4127 0.1304 0.1304 0.0869 0.3259 8.9031 0.0026	Laminate* Barium Sulfate Talc Phosphin oxide derivative Silica Epoxy Resin Copper OSP	- 7727-43-7 14807-96-6 - - - 7440-50-8 -	33.66% 2.74% 0.87% 0.87% 0.58% 2.16% 59.11% 0.02%	MGC CCL-HL832NS Solder mask PFR800 Aus410
Repassivation polyimide	0.036%	0.024	0.020% 0.002% 0.000% 0.014%	0.0132 0.0012 0.0001 0.0095	N-Methyl-2-pyrrolidone Proprietary Monomer Methanol Non regulated ingredients	872-50-4 - 67-56-1 -	55.00% 5.00% 0.50% 39.50%	HD4000E
UBM	0.024%	0.016	0.005% 0.019%	0.0032 0.0128	Titanium (Ti) Copper (Cu)	7440-32-6 7440-50-8	20.25% 79.75%	
Bump	2.031%	1.363	1.639% 0.030% 0.286% 0.075%	1.1002 0.0202 0.1922 0.0506	Tin (Sn) Silver (Ag) Nickel (Ni) Copper (Cu)	7440-31-5 7440-22-4 7440-02-0 7440-50-8	80.72% 1.48% 14.10% 3.71%	Sn98.2/Ag1.8
Mold Compound	60.46%	40.580	6.263% 3.268% 1.632% 2.996% 38.127% 8.170%	4.2041 2.1935 1.0957 2.0107 25.5910 5.4838	Epoxy Resins Phenol Resins Metal Hydroxide Carbon Black Silica (Amorphous) A Silica (Amorphous) B	- - - 1333-86-4 60676-86-0 7631-86-9	10.36% 5.41% 2.70% 4.96% 63.06% 13.51%	EME-G311SA Type C
Solder Balls	7.23%	4.851	7.101% 0.087% 0.036% 0.004%	4.7661 0.0582 0.0243 0.0024	Tin (Sn) Silver (Ag) Copper (Cu) Nickel (Ni)	7440-31-5 7440-22-4 7440-50-8 7440-02-0	98.25% 1.20% 0.50% 0.05%	Sn0.9825Ag1.2Cu0.5Ni0.05 0.25mm diameter

Notes: * 0.08% max. concentration of Bisphenol A (CAS# 80-05-7) in substrate laminate material as impurity - not intentionally added.

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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