

Digi NS9210

Package Weight and Material Composition Information

Package CABGA 13x13 2 LAYER 177 IO

Die size (mm):

Die #1 4.8 x 5.1 x 0.254

	name	composition		%	gms	density	gms	%	PPM
Mold Compound	Nitto GE-100LFCS					2.0	0.2242	54.08%	540,803
	Resin	Biphenyl		11.5	0.0258			6.22%	62,192
	Filler	SiO2		88.5	0.1984			47.86%	478,610
	Antimony	none		0.00	0.0000			0.00%	470,010
	Brominated compound	none		0.00	0.0000			0.00%	
Laminate	CCL-HL832 (BT)						0.1039	25.05%	250,543
				%	gms	density			
		Laminate			0.0608	1.8		14.68%	146,778
		Solder Mask	SM		0.0169	2.2		4.08%	40,803
		Plating	Cu		0.0195	8.9		4.71%	47,066
		Plating	Ni		0.0056	8.9		1.35%	13,505
		Plating	Au		0.0010	19.3		0.24%	2,391
Specific substance breakout,		Antimony	Sb2O3	0.000	0.0000			0.00%	-
already included in laminate		PBB & PBDE		0.00	0.0000	ĺ		0.00%	-
weight total	Total bro	ominated compound		3.7494	0.0039			3.75%	37,494
Die							0.0149	3.60%	36,002
Die #1	Silicon				0.014923008	2.4		3.60%	36,002
Die Attach				%			0.0021	0.50%	5,018
Die #1	2300	Resin		22	0.0004576	3.3		0.11%	1,104
		Filler	Ag	78	0.0016223			0.39%	3,914
Wire	MKE HTS-Type			%	gms	19.3	0.0027	0.65%	6,476
Wire Dia(mm)	0.020		Au	99.00	0.002657516			0.641134%	6411.335
			Ag	0.0025	0.000000067			0.000016%	0.162
			Cu	0.0005	0.000000013			0.000003%	0.032
			Fe	0.0005	0.000000013			0.000003%	0.032
			Ca	0.0020	0.000000054			0.000013%	0.130
			Pd	0.9900	0.000026575			0.006411%	64.113
			Mg	0.0005	0.000000013			0.000003%	0.032
B-1	2 0 0054 - 0 000 - 0 005						0.0000	40.400/	404.450
Ball	Sn 0.965Ag 0.03Cu 0.005					ļ	0.0668	16.12%	161,158
dia (mm)	0.46		Material	%	gms	ave density			
			Sn	96.5%	0.0645	1		15.55%	155,518
			Ag	3.0%	0.0020			0.48%	4,835
			Cu	0.5%	0.0003	1		0.08%	806
			0	0.0%	0.0000	ı		0.00%	-
M mko	r						0.4145	100%	1000000
Technolog	3 Y								

Shaded blocks calculated per RoHS requirements (% of material weight, not total package weight)

Disclaimer

The calculators identified in this report are used solely for determining package and weight composition and not for any other purpose, including but not limited to RoHS compliance. These calculators are used at the request of Customer in accordance with Amkor's current Terms and Conditions. Customer acknowledges that certain data used to generate the package and weight composition are provided by third parties and may not be validated and as such, the associated calculations performed herein are unproven and may produce inconclusive results.

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