



MATERIAL DECLARATION

PART NUMBER : AS4C64M32MD1A-5BIN

**Approved by:
quality@alliancememory.com**

PART WEIGHT (mg)

153.20

No.	Part Name	Material Name	Material Content (Element)	CAS Number	Material Mass (mg)	Material Mass (%)	Substance wt (%)	Substance wt (mg)
1	Silicon Chip	Silicon	Silicon (Si)		20.250	13.22%	13.22%	20.250
2	Mold Compound	Resin	Silica, vitreous 4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'-tetramethyl(1,1'-biphenyl) Phenol, Polymer with 1,4 -bis benzene Carbon Black Others	60676-86-0 85954-11-6 26834-02-6 1333-86-4 Trade secret	27.245	17.78%	14.58% 0.53% 0.53% 0.11% 2.03% 0.00%	22.341 0.817 0.817 0.163 3.106
3	Substrate	Resin	Glass cloth Copper Epoxy Flame Resistant Epoxy Resin Heat Resistant Resin Silica Filler Metal Hydroxide 3-methoxy-3-methyl butylacetate Morpholine derivative Barium sulfate Talc containing no asbestiform fibers Dipropylene glycol monomethyl ether Naphthalene (Carc . Cat. 3 ; R40) Epoxy resin (MW 7 0 0) 3-methoxy-3-methyl butylacetate Epoxy resin (MW 7 0 0) Barium sulfate Dipropylene glycol monomethyl ether Copper other ingredients Nickel Metal Au	65997-17-3 7440-50-8 28906-96-9 Trade secret 25722-66-1 7631-86-9 Trade secret 103429-90-9 Trade secret 7727-43-7 14807-96-6 34590-94-8 91-20-3 Trade secret 103429-90-9 85954-11-6 7727-43-7 34590-94-8 7440-50-8 - 7440-02-0 13967-50-5	89.205	58.23%	4.48% 15.19% 0.75% 0.75% 0.75% 2.49% 0.50% 0.40% 0.07% 0.73% 0.07% 0.24% 0.03% 0.36% 0.07% 0.28% 0.73% 0.49% 29.77% 0.01% 0.06% 0.01%	6.869 23.277 1.145 1.145 1.145 3.816 0.763 0.612 0.106 1.117 0.106 0.372 0.053 0.559 0.106 0.426 1.117 0.745 45.611 0.009 0.094 0.012
4	Die Attach Material	Epoxy	Epoxy Acryl copolymer Hardener Silica	29690-82-2 Trade secret Trade secret 7631-86-9	1.000	0.65%	0.13% 0.13% 0.07% 0.33%	0.200 0.200 0.100 0.500
5	Wire	Metal	Gold (Au) Silver(Ag) Palladium(Pd) Others	7440-57-5 7440-22-4 7440-05-03 Trade secret	0.650	0.42%	0.34% 0.08% 0.00% 0.00% 0.00%	0.520 0.124 0.006 0.000
6	Solder Ball	Metal	Tin Silver Copper Nickel	7440-31-5 7440-22-4 7440-50-8 7440-02-0	14.850	9.69%	9.52% 0.12% 0.05% 0.00%	14.590 0.178 0.074 0.007

153.200

100%

100%

153.200