



ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C2G8D4A-62BCN						
Part Weight:		169mg						
Part Name	Subdiscrete	Subdiscrete Type	Component wt (mg)	Component wt (%)	Material Content (Element)	CAS #	Element wt (%)	Element wt (mg)
Bond Wire	Gold	Mixed 7	0.2366	0.14				
					GOLD	7440-57-5	99	0.234234
					palladium	7440-05-3	1	0.002366
Die	Micron	Aluminum Copper	13.6045	8.05				
					ALUMINIUM	7429-90-5	0.16	0.0217672
					COPPER	7440-50-8	0.03	0.00408135
					SILICON	7440-21-3	99.2	13.495664
					titanium	7440-32-6	0.026	0.00353717
					tungsten	7440-33-7	0.584	0.07945028
Die Attach	BMI/Epoxy Paste	Silica/Rubber	4.2588	2.52				
					1,1'-(methylenedi-p-phenylene)bismaleimide	13676-54-5	40	1.70352
					FORMALDEHYDE, POLYMER WITH 2-(CHLOROMETHYL)OXIRANE AND PHENOL	9003-36-5	20	0.85176
					SILICA, VITREOUS	60676-86-0	40	1.70352
Encapsulant	Epoxy Mold Compound	Green	69.0703	40.87				
					4,4'-Dihydroxy-3,3',5,5'-tetramethyldiphenylmethane diglycidyl ether	93705-66-9	8	5.525624
					ALUMINIUM HYDROXIDE	21645-51-2	3	2.072109
					BENZALDEHYDE, HYDROXY-, POLYMER WITH PHENOL	106466-55-1	5	3.453515
					CARBON BLACK	1333-86-4	1	0.690703
					SILICA, VITREOUS	60676-86-0	83	57.328349
Interposer Core	BT Substrate	Green 2	20.1617	11.93				
					1,1'-(methylenedi-p-phenylene)bismaleimide	13676-54-5	11.5	2.3185955
					Cyanic acid, (1-methylethylidene)di-4,1-phenylene ester, homopolymer	25722-66-1	8.5	1.7137445
					Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2	9.3	1.8750381
					FORMALDEHYDE, POLYMER WITH 2-(CHLOROMETHYL)OXIRANE AND PHENOL	9003-36-5	9	1.814553
					GLASS, OXIDE, CHEMICALS	65997-17-3	53.5	10.7865095
					magnesium silicate	13776-74-4	1	0.201617
					SILICA	7631-86-9	7.2	1.4516424
Interposer	Ink	Epoxy	5.5094	3.26				
					Oxirane, 2,2'-[[[(oxiranylmethoxy)phenyl]methylene]bis[[[(1,1-dimethylethyl)methylphenylene]oxymethylene]]bis-polychloro copper phthalocyanine	129915-35-1	99.5	5.481853
						1328-53-6	0.5	0.027547
Interposer	Surface Finish	Gold	0.0169	0.01				
					GOLD	7440-57-5	100	0.0169
Interposer	Surface Finish	Nickel	0.0169	0.01				
					NICKEL	7440-02-0	100	0.0169
Interposer	Surface Finish	Copper	2.9913	1.77				
					COPPER	7440-50-8	100	2.9913
Solder	Balls	SAC Q	53.1336	31.44				
					BISMUTH	7440-69-9	3	1.594008
					COPPER	7440-50-8	0.5	0.265668
					NICKEL	7440-02-0	0.05	0.0265668
					SILVER	7440-22-4	4	2.125344
					TIN	7440-31-5	92.45	49.1220132
					Total Weight			169