



ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C2M32D1A-5BCN / AS4C2M32D1A-5BIN							
Part Weight:		336.6mg							
No.	Part Name	Material Name	Component wt (mg)	Material Content (Element)	CAS Number	Element wt (%)	Element wt (mg)	wt % of Total unit wt	PPM
1	Substrate	HL-832NX / AUS 308	101.55	Cured thermosetting resin (including inorganic filler)	Trade secret	37.21%	37.7873	11.23%	372105
				Continuous Filament Filament Fiber Glass	65997-17-3	37.21%	37.7873	11.23%	372105
				Talc containing no asbestiform fibers	14807-96-6	0.44%	0.4428	0.13%	4360
				Morpholine derivative	Trade secret	0.44%	0.4428	0.13%	4360
				Barium sulfate	7727-43-7	4.80%	4.8703	1.45%	47960
				Silica, amorphous	7631-86-9	0.11%	0.1107	0.03%	1090
				Dipropylene glycol monomethyl ether	34590-94-8	2.62%	2.6565	0.79%	26160
				Naphthalene	91-20-3	0.11%	0.1107	0.03%	1090
				Epoxy resin A	Trade secret	1.42%	1.4390	0.43%	14170
				Epoxy resin B	85954-11-6	0.98%	0.9962	0.30%	9810
				Copper	7440-50-8	13.94%	14.1571	4.21%	139410
				Nickel	7440-02-0	0.64%	0.6489	0.19%	6390
Gold	7440-57-5	0.10%	0.1005	0.03%	990				
2	Mold compound	G770SY	181.6445	Epoxy Resin A	Trade Secret	4.00%	7.2658	2.16%	40000
				Epoxy Resin B	Trade secret	4.00%	7.2658	2.16%	40000
				Phenol Resin A	Trade Secret	3.00%	5.4493	1.62%	30000
				Phenol Resin B	Trade secret	3.00%	5.4493	1.62%	30000
				Silica(Amorphous) A	60676-86-0	70.65%	128.3318	38.13%	706500
				Silica(Amorphous) B	7631-86-9	13.00%	23.6138	7.02%	130000
				Metal Hydroxide	Trade secret	2.00%	3.6329	1.08%	20000
				Carbon Black	1333-86-4	0.35%	0.6358	0.19%	3500
3	Epoxy	EM-700	0.1775	Solid Epoxy Resin	Trade secret	15.00%	0.0266	0.01%	150000
				Phenol Resin	Trade secret	10.00%	0.0178	0.01%	100000
				Amorphous silica	7631-86-9	35.00%	0.0621	0.02%	350000
				Synthetic Rubber	Trade secret	40.00%	0.0710	0.02%	400000
4	Solder ball	SnAgCu	50.8172	Tin	7440-31-5	96.50%	49.0386	14.57%	965000
				Silver	7440-22-4	3.00%	1.5245	0.45%	30000
				Copper	7440-50-8	0.50%	0.2541	0.08%	5000
5	Gold wire	Au	0.5641	Gold	7440-57-5	99.99%	0.5641	0.17%	999900
				Others	Trade Secret	0.01%	0.0001	0.00%	100
6	Die	Chip	1.8467	Silicon	7440-21-3	100.00%	1.8467	0.55%	1000000
336.6						600.00%	336.6000	100.00%	6000000