



ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C4M16SA-7B2CN								
Part Weight:		130.4mg								
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	36.968	Bismaleimide Triazine resin	105391-33-1	6.99	2.586	1.98	69948	
				Epoxy resin -1	25722-66-1	6.99	2.586	1.98	69948	
				Epoxy resin -2	9003-36-5	6.99	2.586	1.98	69948	
				Inorganic Filler	21645-51-2	15.74	5.818	4.46	157383	
				Continuous Filament Fiber Glass	65997-17-3	21.57	7.973	6.11	215673	
				Talc containing no asbestiform fibers	14807-96-6	0.45	0.166	0.13	4492	
				Morpholine derivative	Trade secret	0.45	0.166	0.13	4492	
				Barium sulfate	7727-43-7	5.05	1.868	1.43	50535	
				Silica, amorphous	7631-86-9	0.11	0.042	0.03	1123	
				Dipropylene glycol monomethyl ether	34590-94-8	2.70	0.996	0.76	26952	
				Epoxy resin A	Trade secret	1.46	0.540	0.41	14599	
				Epoxy resin B	85954-11-6	1.01	0.374	0.29	10107	
				Copper	7440-50-8	29.79	11.013	8.45	297900	
				Nickel	7440-02-0	0.61	0.226	0.17	6100	
Gold	7440-57-5	0.08	0.030	0.02	800					
2	Mold compound	G1250	73.154	Epoxy resin	Trade Secret	5.50	4.023	3.09	55000	
				Phenol resin	Trade Secret	4.50	3.292	2.52	45000	
				Carbon Black	1333-86-4	0.30	0.219	0.17	3000	
				Silica Fused	60676-86-0	89.70	65.619	50.32	897000	
3	Epoxy	2025D	0.274	Silica, amorphous, fused	Trade Secret	54.50	0.149	0.11	545000	
				Bismaleimide monomer	Trade Secret	27.50	0.075	0.06	275000	
				Acrylate monomer	Trade Secret	7.50	0.021	0.02	75000	
				Epoxy Resin	Trade Secret	7.50	0.021	0.02	75000	
				Acrylic resin	112-15-2	3.00	0.008	0.01	30000	
4	Solder Ball	M705	15.909	Tin	7440-31-5	96.50	15.352	11.77	965000	
				Silver	7440-22-4	3.00	0.477	0.37	30000	
				Copper	7440-50-8	0.50	0.080	0.06	5000	
5	Gold wire	Au	0.548	Gold	7440-57-5	100.00	0.548	0.42	1000000	
6	Die	Chip	3.547	Silicon	7440-21-3	98.00	3.476	2.67	980000	
				Aluminum	7429-90-5	2.00	0.071	0.05	20000	
			130.4				600.00	130.400	100.00	6000000