



ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C16M16SB-6TIN / AS4C16M16SB-7TCN								
Part Weight:		562.368mg								
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	Lead Frame	A42	142.887	Carbon	7440-44-0	0.05%	0.071	0.01%	500	
				Silicon	7440-21-3	0.30%	0.429	0.08%	3000	
				Manganese	7439-96-5	0.80%	1.143	0.20%	8000	
				Nickel	7440-02-0	41.70%	59.584	10.60%	417000	
				Chromium	7440-47-3	0.10%	0.143	0.03%	1000	
				Cobalt	7440-48-4	0.50%	0.714	0.13%	5000	
				Aluminium	7429-90-5	0.10%	0.143	0.03%	1000	
				Iron	7439-89-6	54.45%	77.802	13.83%	544500	
				Silver	7440-22-4	2.00%	2.858	0.51%	20000	
2	Mold compound	CEL-9200HF	412.917	Epoxy resin	Trade Secret	4.00%	16.517	2.94%	40000	
				Hardener	Trade secret	4.00%	16.517	2.94%	40000	
				Carbon Black	1333-86-4	0.20%	0.826	0.15%	2000	
				Amorphous silica	60676-86-0	88.50%	365.431	64.98%	885000	
				Crystalline silica	14808-60-7	3.30%	13.626	2.42%	33000	
3	Epoxy	EN-4900GC	0.219	Acrylic resin	Trade secret	9.50%	0.021	0.00%	95000	
				Polybutadiene derivative	Trade secret	5.00%	0.011	0.00%	50000	
				Butadiene copolymer	Trade secret	1.50%	0.003	0.00%	15000	
				Epoxy resin	Trade secret	2.00%	0.004	0.00%	20000	
				Acrylate	Trade secret	5.00%	0.011	0.00%	50000	
				Peroxide	Trade secret	0.50%	0.001	0.00%	5000	
				Additive	Trade secret	1.30%	0.003	0.00%	13000	
				Silver	7440-22-4	75.20%	0.165	0.03%	752000	
4	Plating	Sn	1.735	Tin	7440-31-5	99.99%	1.734	0.31%	999900	
				Impurity	Trade secret	0.01%	0.000	0.00%	100	
5	Gold wire	Au	0.963	Gold	7440-57-5	99.99%	0.963	0.17%	999900	
				Others	Trade Secret	0.01%	0.000	0.00%	100	
6	Die	Chip	3.647	Silicon	7440-21-3	100.00%	3.647	0.65%	1000000	
				562.368			600.00%	562.368	100.00%	6000000