



ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C4M16D1A-5TCN/AS4C4M16D1A-5TIN/AS4C4M16D1A-5TAN							
Part Weight:		554mg							
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	170.2500	Iron	7439-89-6	54.95%	93.5524	16.8867%	549500
				Nickel	7440-02-0	41.00%	69.8025	12.5997%	410000
				Carbon	7440-44-0	0.05%	0.0851	0.0154%	500
				Silicon	7440-21-3	0.30%	0.5108	0.0922%	3000
				Manganese	7439-96-5	1.00%	1.7025	0.3073%	10000
				Chromium	7440-47-3	0.10%	0.1703	0.0307%	1000
				Cobalt	7440-48-4	0.50%	0.8513	0.1537%	5000
				Aluminum	7429-90-5	0.10%	0.1703	0.0307%	1000
				Silver	7440-22-4	2.00%	3.4050	0.6146%	20000
2	Epoxy	EN-4900GC	0.4183	Acrylic resin	Trade Secret	8.50%	0.0356	0.0064%	85000
				Polybutadiene derivative	Trade Secret	5.50%	0.0230	0.0042%	55000
				Butadiene copolymer	Trade Secret	2.00%	0.0084	0.0015%	20000
				Epoxy resin	Trade Secret	2.50%	0.0105	0.0019%	25000
				Acrylate	Trade Secret	5.50%	0.0230	0.0042%	55000
3	Gold Wire	Au	0.6378	Gold	7440-57-5	99.99%	0.6377	0.1151%	999900
				Other	Trade Secret	0.01%	0.0001	0.0000%	100
4	Mold compound	CEL-9200HF	378.8492	Epoxy resin	Trade Secret	5.00%	18.9425	3.4192%	50000
				Phenol resin	Trade Secret	4.50%	17.0482	3.0773%	45000
				Carbon black	1333-86-4	0.20%	0.7577	0.1368%	2000
				Silica	60676-86-0	90.30%	342.1008	61.7511%	903000
5	Plating	Sn	1.5512	Tin	7440-31-5	99.98%	1.5509	0.2799%	999800
				Impurity	Trade Secret	0.02%	0.0003	0.0001%	200
6	Die	Chip	2.2934	Silicon	7440-21-3	100.00%	2.2934	0.4140%	1000000
			554.0000			600.00%	554.0000	100.0000%	6000000