



# ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C4M16SA-5TCN							
Part Weight:		550.78mg							
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	155.525	Iron	7439-89-6	53.85%	83.7518	15.21%	538510
				Nickel	7440-02-0	42.14%	65.5382	11.90%	421400
				Carbon	7440-44-0	0.05%	0.0762	0.01%	490
				Silicon	7440-21-3	0.29%	0.4572	0.08%	2940
				Manganese	7439-96-5	0.98%	1.5241	0.28%	9800
				Chromium	7440-47-3	0.10%	0.1524	0.03%	980
				Cobalt	7440-48-4	0.49%	0.7621	0.14%	4900
				Aluminium	7429-90-5	0.10%	0.1524	0.03%	980
				Silver	7440-22-4	2.00%	3.1105	0.56%	20000
2	Mold compound	CEL-9200HF	390.2284	Epoxy Resin	Trade Secret	4.50%	17.5603	3.19%	45000
				Phenol Resin	Trade Secret	4.50%	17.5603	3.19%	45000
				Metal Hydroxide	Trade Secret	4.00%	15.6091	2.83%	40000
				Carbon Black	1333-86-4	0.20%	0.7805	0.14%	2000
				Silver	60676-86-0	85.80%	334.8160	60.79%	858000
				Other	Trade Secret	1.00%	3.9023	0.71%	10000
3	Epoxy	EN-4900GC	0.403	Acrylic Resin	Trade Secret	8.50%	0.0343	0.01%	85000
				Polybutadiene Derivative	Trade Secret	5.50%	0.0222	0.00%	55000
				Butadiebe Copolymer	Trade Secret	2.00%	0.0081	0.00%	20000
				Epoxy Resin	Trade Secret	2.50%	0.0101	0.00%	25000
				Acrylate	Trade Secret	5.50%	0.0222	0.00%	55000
				Silver	7440-22-4	76.00%	0.3063	0.06%	760000
4	Plating	Sn	1.7346	Tin	7440-31-5	99.80%	1.7311	0.31%	998000
				Impurity	Trade Secret	0.20%	0.0035	0.00%	2000
5	Gold Wire	Au	0.4037	Gold	7440-57-5	99.99%	0.4037	0.07%	999900
				Impurity	Trade Secret	0.01%	0.0000	0.00%	100
6	Die	Chip	2.4853	Silicon	7440-21-3	100.00%	2.4853	0.45%	1000000
						600.00%	550.7800	100.00%	6000000