



# ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C16M16D1A-5TCN AS4C16M16D1A-5TIN							
Part Weight:		558.48mg							
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	168.84	Carbon	7440-44-0	0.02	0.034	0.01	200
				Silicon	7440-21-3	0.3	0.507	0.09	3000
				Manganese	7439-96-5	0.8	1.351	0.24	8000
				Nickel	7440-02-0	41	69.224	12.40	410000
				Chromium	7440-47-3	0.1	0.169	0.03	1000
				Cobalt	7440-48-4	0.5	0.844	0.15	5000
				Aluminium	7429-90-5	0.1	0.169	0.03	1000
				Iron	7439-89-6	55.18	93.166	16.68	551800
				Silver	7440-22-4	2	3.377	0.60	20000
2	Mold compound	CEL-9200HF	380.347	Epoxy Resin	Trade Secret	4.5	17.116	3.06	45000
				Phenol Resin	Trade Secret	4.5	17.116	3.06	45000
				Metal Hydroxide	Trade Secret	4	15.214	2.72	40000
				Carbon Black	1333-86-4	0.2	0.761	0.14	2000
				Silica	60676-86-0	85.8	326.337	58.43	858000
				Other	Trade Secret	1	3.803	0.68	10000
3	Epoxy	EN-4900GC	2.104	Acrylic Resin	Trade Secret	8.5	0.179	0.03	85000
				Polybutadiene Derivative	Trade Secret	5.5	0.116	0.02	55000
				Butadiebe Copolymer	Trade Secret	2	0.042	0.01	20000
				Epoxy Resin	Trade Secret	2.5	0.053	0.01	25000
				Acrylate	Trade Secret	5.5	0.116	0.02	55000
				Silver	7440-22-4	76	1.599	0.29	760000
4	Plating	Sn	1.551	Tin	7440-31-5	99.8	1.548	0.28	998000
				Impurity	Trade Secret	0.2	0.003	0.00	2000
5	Gold Wire	Au	0.591	Gold	7440-57-5	99.99	0.591	0.11	999900
				Impurity	Trade Secret	0.01	0.000	0.00	100
6	Die	Chip	5.047	Silicon	7440-21-3	100	5.047	0.90	1000000
			558.48			600	558.480	100.00	6000000