



# ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C32M16D1A-5TCN AS4C32M16D1A-5TIN							
Part Weight:		556.46mg							
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	164.64	Carbon	7440-44-0	0.02%	0.033	0.01	200
				Silicon	7440-21-3	0.30%	0.494	0.09	3000
				Manganese	7439-96-5	0.80%	1.317	0.24	8000
				Nickel	7440-02-0	41.00%	67.502	12.13	410000
				Chromium	7440-47-3	0.10%	0.165	0.03	1000
				Cobalt	7440-48-4	0.50%	0.823	0.15	5000
				Aluminium	7429-90-5	0.10%	0.165	0.03	1000
				Iron	7439-89-6	55.18%	90.848	16.33	551800
				Silver	7440-22-4	2.00%	3.293	0.59	20000
2	Mold compound	CEL-9200HF	385.737	Epoxy Resin	Trade Secret	4.50%	17.358	3.12	45000
				Phenol Resin	Trade Secret	4.50%	17.358	3.12	45000
				Metal Hydroxide	Trade Secret	4.00%	15.429	2.77	40000
				Carbon Black	1333-86-4	0.20%	0.771	0.14	2000
				Sillica	60676-86-0	85.80%	330.962	59.48	858000
				Other	Trade Secret	1.00%	3.857	0.69	10000
3	Tape	HM-122U-FE100	0.576	Aromatic polyimide resin	32197-39-0	50.00%	0.288	0.05	500000
				Special heat-resistant resin	Trade Secret	50.00%	0.288	0.05	500000
4	Plating	Sn	1.551	Tin	7440-31-5	99.80%	1.548	0.28	998000
				other	Trade Secret	0.20%	0.003	0.00	2000
5	Gold Wire	Au	0.494	Gold	7440-57-5	99.99%	0.494	0.09	999900
				Impurity	-	0.01%	0.000	0.00	100
6	Die	Chip	3.462	Silicon	7440-21-3	100.00%	3.462	0.62	1000000
			556.46			600.00%	556.460	100.00	6000000