



ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C32M8SA-7TCN/AS4C32M8SA-6TIN							
Part Weight:		555.518mg							
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	157.885	Nickel	7440-02-0	43.00%	67.8906	12.22%	430000
				Iron	7439-89-6	53.00%	83.6791	15.06%	530000
				Silver	7440-22-4	2.00%	3.1577	0.57%	20000
				Copper	7440-50-8	0.10%	0.1579	0.03%	1000
				Silicon	7440-21-3	0.30%	0.4737	0.09%	3000
				Aluminium	7429-90-5	0.10%	0.1579	0.03%	1000
				Manganese	7439-96-5	0.80%	1.2631	0.23%	8000
				Phosphorus	7723-14-0	0.03%	0.0395	0.01%	250
				Cobalt	7440-48-4	0.50%	0.7894	0.14%	5000
				Chromium	7440-47-3	0.10%	0.1579	0.03%	1000
				Carbon	7440-44-0	0.05%	0.0789	0.01%	500
				Sulphur	7704-34-9	0.03%	0.0395	0.01%	250
2	Mold compound	CEL-9200HF	391.1179	Epoxy resin	Trade Secret	5.40%	21.1204	3.80%	54000
				Hardener	Trade secret	5.40%	21.1204	3.80%	54000
				Carbon Black	1333-86-4	0.20%	0.7822	0.14%	2000
				Amorphous silica	60676-86-0	88.55%	346.3349	62.34%	885500
				Crystalline silica	14808-60-7	0.45%	1.7600	0.32%	4500
3	Epoxy	EN-4900GC	0.2192	Acrylic resin	Trade secret	7.24%	0.0159	0.00%	72400
				Polybutadiene derivative	Trade secret	5.56%	0.0122	0.00%	55600
				Butadiene copolymer	Trade secret	1.68%	0.0037	0.00%	16800
				Acrylate	Trade secret	6.72%	0.0147	0.00%	67200
				Epoxy resin	Trade secret	3.36%	0.0074	0.00%	33600
				Peroxide	Trade secret	0.84%	0.0018	0.00%	8400
				Additive	Trade secret	1.68%	0.0037	0.00%	16800
				Silver	7440-22-4	72.92%	0.1598	0.03%	729200
4	Plating	Sn	1.7346	Tin	7440-31-5	99.99%	1.7344	0.31%	999900
				Other	Trade secret	0.01%	0.0002	0.00%	100
5	Gold wire	Au	0.9139	Gold	7440-57-5	99.99%	0.9138	0.16%	999900
				Others	Trade Secret	0.01%	0.0001	0.00%	100
6	Die	Chip	3.6474	Silicon	7440-21-3	100.00%	3.6474	0.66%	1000000
			555.518			600.00%	555.5180	100.00%	6000000

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