



ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C4M32SA-6TCN AS4C4M32SA-6TIN AS4C4M32SA-7TCN							
Part Weight:		545.2mg							
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	137.92	Manganese	7439-96-5	0.80%	1.10336	0.20%	8000
				Nickel	7440-02-0	41.00%	56.54720	10.37%	410000
				Chromium	7440-47-3	0.25%	0.34480	0.06%	2500
				Cobalt	7440-48-4	0.50%	0.68960	0.13%	5000
				Iron	7439-89-6	55.45%	76.47664	14.03%	554500
				Silver	7440-22-4	2.00%	2.75840	0.51%	20000
2	Mold compound	CEL-9200HF	398.3729	Epoxy Resin	Trade Secret	4.50%	17.92678	3.29%	45000
				Hardener	Trade Secret	4.50%	17.92678	3.29%	45000
				Metal Hydroxide	Trade Secret	4.00%	15.93492	2.92%	40000
				Carbon Black	1333-86-4	0.20%	0.79675	0.15%	2000
				Amorphous silica	60676-86-0	85.80%	341.80395	62.69%	858000
				Crystal silica	14808-60-7	1.00%	3.98373	0.73%	10000
3	Epoxy	EN-4900GC	0.4392	Acrylic resin	Trade Secret	9.48%	0.04164	0.01%	94800
				Polybutadiene derivative	Trade Secret	7.76%	0.03408	0.01%	77600
				Butadiene copolymer	Trade Secret	1.92%	0.00843	0.00%	19200
				Epoxy Resin	Trade Secret	3.45%	0.01515	0.00%	34500
				Acrylate	Trade Secret	6.70%	0.02943	0.01%	67000
				Silver (Metal powder)	7440-22-4	70.69%	0.31047	0.06%	706900
4	Plating	Sn	1.1844	Tin	7440-31-5	99.99%	1.18428	0.22%	999900
				Impurity	Trade Secret	0.01%	0.00012	0.00%	100
5	Gold Wire	Au	0.704	Gold	7440-57-5	99.99%	0.70393	0.13%	999900
				other	Trade Secret	0.01%	0.00007	0.00%	100
6	Die	Chip	6.5795	Silicon	7440-21-3	100.00%	6.57950	1.21%	1000000
545.2						600.00%	545.20000	100.00%	6000000

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Alliance Memory Inc. reserves the right to change products or specification without notice