



ALLIANCE MEMORY MDS REPORT

Part Number:			AS4C4M16SB-6TIN							
Part Weight:			548.666mg							
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	131.2	Nickel	7440-02-0	41.00%	53.79200	9.80%	410000	
				Manganese	7439-96-5	0.50%	0.65600	0.12%	5000	
				Silicon	7440-21-3	0.20%	0.26240	0.05%	2000	
				Carbon	7440-44-0	0.01%	0.01312	0.00%	100	
				Cobalt	7440-48-4	0.50%	0.65600	0.12%	5000	
				Iron	7439-89-6	55.79%	73.19648	13.34%	557900	
				Silver	7440-22-4	2.00%	2.62400	0.48%	20000	
2	Mold compound	9200HF	413.48	2,2'-((3,3',5,5'-tetramethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(oxymethylene))-bis-oxirane	Trade Secret	5.00%	20.67405	3.77%	50000	
				Hardener	Trade secret	5.00%	20.67405	3.77%	50000	
				Carbon Black	1333-86-4	0.20%	0.82696	0.15%	2000	
				Amorphous silica	60676-86-0	85.80%	354.76670	64.66%	858000	
				Quartz (SiO2)	14808-60-7	4.00%	16.53924	3.01%	40000	
3	Epoxy	EN-4900GC	0.109	Acrylic resin	Trade secret	8.00%	0.00872	0.00%	80000	
				Polybutadiene derivative	Trade secret	5.00%	0.00545	0.00%	50000	
				Butadiene copolymer	Trade secret	2.00%	0.00218	0.00%	20000	
				Acrylate	Trade secret	5.00%	0.00545	0.00%	50000	
				Epoxy resin	Trade secret	2.00%	0.00218	0.00%	20000	
				Peroxide	Trade secret	1.00%	0.00109	0.00%	10000	
				Additive	Trade secret	2.00%	0.00218	0.00%	20000	
				Silver	7440-22-4	75.00%	0.08175	0.01%	750000	
4	Plating	99.99%Sn	1.735	Tin	7440-31-5	99.99%	1.73483	0.32%	999900	
				Plumbum	7440-05-3	0.01%	0.00017	0.00%	100	
5	Gold wire	Au	0.515	Gold	7440-57-5	99.99%	0.51495	0.09%	999900	
				Others	Trade Secret	0.01%	0.00005	0.00%	100	
6	Die	Chip	1.626	Silicon	7440-21-3	100.00%	1.62600	0.30%	1000000	
			548.666				600.00%	548.66600	100.00%	6000000