



# ALLIANCE MEMORY MDS REPORT

Part Number:		AS5F31G04SND-08LIN								
Part Weight:		76.933mg								
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	Substrate	HL-832NX-A / AUS 308	13.035	BT. Resin	Tradeseecret	55.00%	7.169	9.32%	550000	
				Copper	Tradeseecret	23.00%	2.998	3.90%	230000	
				Prepreg	Tradeseecret	13.00%	1.695	2.20%	130000	
				Nickel	Tradeseecret	0.75%	0.098	0.13%	7500	
				Gold	Tradeseecret	0.50%	0.065	0.08%	5000	
				Solder mask	Tradeseecret	7.00%	0.912	1.19%	70000	
				Plugging	Tradeseecret	0.75%	0.098	0.13%	7500	
2	Mold compound	G760	56.106	2,2'-((3,3',5,5'-tetramethyl-(1,1'-biphenyl)-4,4'-diyl)bis(oxymethylene))-bis-oxirane	85954-11-6	8.00%	4.488	5.83%	80000	
				Phenol Resin A	Trade Secret	2.70%	1.515	1.97%	27000	
				Phenol Resin B	Trade Secret	2.80%	1.571	2.04%	28000	
				Silica(Amorphous) A	60676-86-0	70.00%	39.274	51.05%	700000	
				Silica(Amorphous) B	7631-86-9	8.00%	4.488	5.83%	80000	
				Metal Hydroxide	Trade Secret	8.00%	4.488	5.83%	80000	
				Carbon Black	1333-86-4	0.50%	0.281	0.36%	5000	
3	DAF	EM760	0.574	Acrylic resin (Die attach film)	Trade Secret	50.00%	0.287	0.37%	500000	
				Silica, amorphous(Die attach film)	7631-86-9	45.00%	0.258	0.34%	450000	
				Phenol resin (Die attach film)	Trade Secret	5.00%	0.029	0.04%	50000	
4	Solder paste	96.5Sn/3Ag/0.5Cu	0.018	Tin	7440-31-5	85.00%	0.015	0.02%	850000	
				Silver	7440-22-4	2.70%	0.000	0.00%	27000	
				Copper	7440-50-8	0.30%	0.000	0.00%	3000	
				Solvent	Trade seacret	5.00%	0.001	0.00%	50000	
				Organic amine	Trade seacret	5.00%	0.001	0.00%	50000	
				polymer	Trade seacret	1.00%	0.000	0.00%	10000	
				Organic acid	Trade seacret	1.00%	0.000	0.00%	10000	
5	Gold wire	Au	0.176	Gold	7440-57-5	100.00%	0.176	0.23%	999960	
				Calcium	7440-70-2	0.00%	0.000	0.00%	40	
6	Die	Chip	6.694	Silicon	7440-21-3	98.00%	6.560	8.53%	980000	
				Aluminum	7429-90-5	2.00%	0.134	0.17%	20000	
7	Capacitor	0201/100pF	0.33	Barium oxide, obtained by calcining witherite	1304-28-5	40.00%	0.132	0.17%	400000	
				Titanium dioxide	13463-67-7	20.00%	0.066	0.09%	200000	
				Misc	Trade seacret	6.67%	0.022	0.03%	66667	
				Copper	7440-50-8	20.73%	0.068	0.09%	207273	
				diboron trioxide; boric oxide	1303-86-2	0.46%	0.002	0.00%	4606	
				Silicon dioxide	7631-86-9	1.84%	0.006	0.01%	18424	
				Nickel Plating Layer-Nickel	7440-02-0	2.12%	0.007	0.01%	21212	
				Inner electrode-Nickel	7440-02-0	2.42%	0.008	0.01%	24242	
				Tin	7440-31-5	5.76%	0.019	0.02%	57576	
			76.933				700.00%	76.933	100.00%	7000000