



ALLIANCE MEMORY MDS REPORT

Part Number:		AS5F12G04SND-10LIN							
Part Weight:		85.805mg							
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	13.377	Copper (Cu)	7440-50-8	11.02%	1.474	1.72%	110200
				Nickel (Ni)	7440-02-0	1.50%	0.201	0.23%	15000
				Gold (Au)	7440-57-5	0.25%	0.033	0.04%	2500
				3-methoxy-3-methylbutylacetate	103429-90-9	5.33%	0.713	0.83%	53279
				Morpholine derivative	Tradeseecret	1.07%	0.143	0.17%	10656
				Barium Sulfate	7727-43-7	6.39%	0.855	1.00%	63934
				Talc containing no asbestiform fibers	14807-96-6	1.07%	0.143	0.17%	10656
				Dipropylene glycol monomethyl ether	34590-94-8	2.13%	0.285	0.33%	21311
				Naphthalene (Carc. Cat. 3; R40)	91-20-3	0.27%	0.036	0.04%	2664
				Cured thermosetting resin (including inorganic filler)	Trade Secret	30.00%	4.013	4.68%	300000
				Continuous Filament Fiber Glass	Trade Secret	40.98%	5.482	6.39%	409800
				2	Mold compound	G760	57.556	2,2'-(3,3',5,5'-tetramethyl-(1,1'-biphenyl)-4,4'-diyl)bis(oxyethylene)-bis-oxirane	85954-11-6
Phenol Resin A	Trade Secret	2.70%	1.554					1.81%	27000
Phenol Resin B	Trade Secret	2.80%	1.612					1.88%	28000
Silica(Amorphous) A	60676-86-0	70.00%	40.289					46.95%	700000
Silica(Amorphous) B	7631-86-9	8.00%	4.605					5.37%	80000
Metal Hydroxide	Trade Secret	8.00%	4.605					5.37%	80000
Carbon Black	1333-86-4	0.50%	0.288					0.34%	5000
3	DAF	EM760	1.262	Acrylic resin (Die attach film)	Trade Secret	50.00%	0.631	0.74%	500000
				Silica, amorphous(Die attach film)	7631-86-9	45.00%	0.568	0.66%	450000
				Phenol resin (Die attach film)	Trade Secret	5.00%	0.063	0.07%	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	0.189	Gold	7440-57-5	100.00%	0.189	0.22%	999960
				Calcium	7440-70-2	0.00%	0.000	0.00%	40
6	Die	Chip	13.376	Silicon	7440-21-3	98.00%	13.109	15.28%	980000
				Aluminum	7429-90-5	2.00%	0.268	0.31%	20000
7	Capacitor	0201/100pF	0.027	Strontium Oxide	1314-11-0	11.78%	0.003	0.00%	117780
				Calcium Oxide	1305-78-8	13.59%	0.004	0.00%	135900
				Zirconium Dioxide	1314-23-4	45.30%	0.012	0.01%	453000
				Titanium Dioxide	13463-67-7	1.81%	0.000	0.00%	18120
				Silica	14808-60-7	13.59%	0.004	0.00%	135900
				Manganese Tetraoxide	1317-35-7	4.53%	0.001	0.00%	45300
				Nickel	7440-02-0	2.40%	0.001	0.00%	24000
				Barium Titanate	12047-27-7	0.60%	0.000	0.00%	6000
				Copper	7440-50-8	5.28%	0.001	0.00%	52800
				Lead Free Glass	65997-18-4	0.72%	0.000	0.00%	7200
				Nickel	7440-02-0	0.20%	0.000	0.00%	2000
				Matte Tin	7440-31-5	0.20%	0.000	0.00%	2000
85.805						700.00%	85.805	100.00%	7000000