



Part Number:		AS4C256M16D3-12BCN / AS4C256M16D3-12BIN / AS4C256M16D3-12BAN							
Part Weight:		222.84mg							
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 / AUS308	65	Bismaleimide Triazine resin	105391-33-1	6.36%	4.1340	1.86%	63600
				Epoxy resin -1	25722-66-1	6.36%	4.1340	1.86%	63600
				Epoxy resin -2	9003-36-5	6.36%	4.1340	1.86%	63600
				Inorganic Filler	21645-51-2	14.31%	9.3015	4.17%	143100
				Continuous Filament Fiber Glass	65997-17-3	19.61%	12.7465	5.72%	196100
				Talc containing no asbestiform fibers	14807-96-6	0.48%	0.3120	0.14%	4800
				Morpholine derivative	Trade secret	0.48%	0.3120	0.14%	4800
				Barium sulfate	7727-43-7	5.40%	3.5100	1.58%	54000
				Silica, amorphous	7631-86-9	0.12%	0.0780	0.04%	1200
				Dipropylene glycol monomethyl ether	34590-94-8	2.88%	1.8720	0.84%	28800
				Epoxy resin A	Trade secret	1.56%	1.0140	0.46%	15600
				Epoxy resin B	85954-11-6	1.08%	0.7020	0.32%	10800
				Copper	7440-50-8	25.00%	16.2500	7.29%	250000
				Nickel	7440-02-0	8.00%	5.2000	2.33%	80000
Gold	7440-57-5	2.00%	1.3000	0.58%	20000				
2	Mold compound	CEL-9120HF	83.5837	Epoxy rresin	Trade Secret	5.00%	4.1792	1.88%	50000
				Hardener	Trade Secret	2.00%	1.6717	0.75%	20000
				Metal hydroxide	Trade Secret	8.80%	7.3554	3.30%	88000
				Carbon black	1333-86-4	0.20%	0.1672	0.08%	2000
				Amorphous silica	60676-86-0	79.00%	66.0312	29.63%	790000
Crystal silica	14808-60-7	5.00%	4.1792	1.88%	50000				
3	Epoxy	6202C	3.2044	Dipropylene glycol monomethyl ether acetate	112-15-2	35.00%	1.1215	0.50%	350000
				Rubber modified epoxy	Trade Secret	35.00%	1.1215	0.50%	350000
				Carbamate resin	Trade Secret	5.00%	0.1602	0.07%	50000
				Bismaleimide resin	Trade Secret	5.00%	0.1602	0.07%	50000
				Others	Trade secret	20.00%	0.6409	0.29%	200000
4	Solder ball	M705	33.8784	Tin	7440-31-5	96.50%	32.6927	14.67%	965000
				Silver	7440-22-4	3.00%	1.0164	0.46%	30000
				Copper	7440-50-8	0.50%	0.1694	0.08%	5000
5	Gold wire	Au	0.6542	Gold	7440-57-5	99.99%	0.6541	0.29%	999900
				Others	Trade Secret	0.01%	0.0001	0.00%	100
6	Die	Chip	36.5193	Silicon	7440-21-3	100.00%	36.5193	16.39%	1000000
				222.84	600.00%		222.8400	100.00%	600000