



Part Number:		AS4C64M8D1-5BCN / 5BIN								
Part Weight:		190mg								
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 / AUS 308	49.286	Bismaleimide Triazine resin	105391-33-1	8.33%	4.106	2.16	83316	
				Epoxy resin -1	25722-66-1	8.33%	4.106	2.16	83316	
				Epoxy resin -2	9003-36-5	8.33%	4.106	2.16	83316	
				Inorganic Filler	21645-51-2	18.75%	9.239	4.86	187461	
				Continuous Filament Fiber Glass	65997-17-3	25.69%	12.661	6.66	256891	
				Talc containing no asbestiform fibers	14807-96-6	0.50%	0.245	0.13	4980	
				Morpholine derivative	Trade secret	0.50%	0.245	0.13	4980	
				Barium sulfate	7727-43-7	5.60%	2.761	1.45	56025	
				Silica, amorphous	7631-86-9	0.12%	0.061	0.03	1245	
				Dipropylene glycol monomethyl ether	34590-94-8	2.99%	1.473	0.78	29880	
				Epoxy resin A	Trade secret	1.62%	0.798	0.42	16185	
				Epoxy resin B	85954-11-6	1.12%	0.552	0.29	11205	
				Copper	7440-50-8	17.66%	8.704	4.58	176600	
				Nickel	7440-02-0	0.38%	0.187	0.10	3800	
Gold	7440-57-5	0.08%	0.039	0.02	800					
2	Mold compound	CEL-1702HF	111.625	Epoxy Resin 1	Trade Secret	5.50%	6.139	3.23	55000	
				Epoxy Resin 2	Trade Secret	1.75%	1.953	1.03	17500	
				Phenol Resin	Trade Secret	6.50%	7.256	3.82	65000	
				Metal Hydroxide	Trade Secret	5.50%	6.139	3.23	55000	
				Carbon Black	1333-86-4	0.20%	0.223	0.12	2000	
				Silica	60676-86-0	79.55%	88.798	46.74	795500	
				others	Trade Secret	1.00%	1.116	0.59	10000	
3	Epoxy	6200	0.513	Ester Resin	Trade Secret	3.00%	0.015	0.01	30000	
				Resin	Trade Secret	3.00%	0.015	0.01	30000	
				Silica	Trade Secret	7.50%	0.038	0.02	75000	
				Polyolefins	Trade Secret	27.50%	0.141	0.07	275000	
				Epoxy Resin	Trade Secret	27.50%	0.141	0.07	275000	
				Carbitol Acetate	112-15-2	31.50%	0.162	0.09	315000	
4	Solder Ball	96.5Sn3Ag0.5Cu	20.121	Tin	7440-31-5	96.50%	19.417	10.22	965000	
				Silver	7440-22-4	3.00%	0.604	0.32	30000	
				Copper	7440-50-8	0.50%	0.101	0.05	5000	
5	Gold wire	Au	0.209	Gold	7440-57-5	100.00%	0.209	0.11	1000000	
6	Die	Chip	8.246	Silicon	7440-21-3	98.00%	8.081	4.25	980000	
				Aluminum	7429-90-5	2.00%	0.165	0.09	20000	
			190				600.00%	190.000	100.00	600000