



# ALLIANCE MEMORY MDS REPORT

Part Number:		AS4C256M16D3B-12BCN / AS4C256M16D3B-12BIN / AS4C256M16D3B-12BAN							
Wieght (mg):		234.988							
No.	Part Name	Material Name	Part no.	Component wt (mg)	Material Content (Element)	CAS Number	Material mass (%)	Element wt (mg)	wt % of Total unit wt
1	PCB Substrate	Core	MCL-E-679FGB	68.342	Glass cloth	-	29.08%	24.298	10.34%
					Epoxy	-		4.860	2.07%
					Flame Resistant Epoxy Resin	-		4.860	2.07%
					Heat Resistant Resin	-		4.860	2.07%
		Inorganic Filler			-	9.719		4.14%	
		Gold			13967-50-5	0.681		0.29%	
		Nickel			7440-02-0	0.094		0.04%	
2	Substrate Solder Mask	Solder resist	PSR 4000 AUS-308	68.342	Copper	7440-50-8	29.08%	11.945	5.08%
					Acrylic Resin	-		1.778	0.76%
					Phthalocyanine Green, Organic Pigment	-		0.014	0.01%
					Barium Sulfate, Silica, Talc	-		1.356	0.58%
					Aromatic Carbonyl Compound	-		0.176	0.07%
					Amine Compound	-		0.028	0.01%
					Levelling Agents & Others	-		0.112	0.05%
					Dipropylene Glycol Monomethyl Ether	-		0.639	0.27%
					3-Methoxy-3-Methyl Butyl-Acetate	-		0.998	0.42%
					High Boiling Point Petroleum Solvent	-		0.169	0.07%
					Acrylic Monomer	-		0.274	0.12%
					Epoxy Resin	-		0.934	0.40%
					Barium Sulfate	-		0.457	0.19%
					Barium Sulfate	-		0.091	0.04%
3	Die Attach	Epoxy	6202C	5.000	Epoxy resin	Trade Secret	2.13%	1.500	0.64%
					Mixture of Aynthetic and Fused Silica	60676-86-0		2.000	0.85%
					Polymer	Trade Secret		1.500	0.64%
4	Gold Wire	Metal	AT2	0.703	Au	7440-57-5	0.30%	0.703	0.30%
5	Compound	Resin	CEL-1702HF	94.564	Silica	60676-86-0	40.24%	79.632	33.89%
					Epoxy Resin	Trade secret		5.579	2.37%
					Phenol resin	Trade Secret		5.012	2.13%
					Metal hydroxide	Trade Secret		2.733	1.16%
					Carbon powder	Trade Secret		0.284	0.12%
					Wax	1333-86-4		0.095	0.04%
					Organic Posphorus compounds	Trade Secret		1.229	0.52%
6	Solder Ball	Metal	SAC302	34.107	Tin	7440-31-5	14.51%	33.016	14.05%
					Silver	7440-22-4		1.023	0.44%
					Copper	7440-50-8		0.068	0.03%
7	Chip	Silicon	30nm	32.272	Silica	7440-21-3	13.73%	32.272	13.73%
				234.988			100.00%	234.988	100.00%