



ALLIANCE MEMORY MDS REPORT

| Part Number: | | AS4C16M32MSA-6BIN | | | | | | | | |
|--------------|------------------|-------------------|-------------------|-------------------|---------------|------------|----------------|-------------|-----------------------|-----------|
| Part Weight: | | 171.884mg | | | | | | | | |
| NO. | Material | Type | Component wt (mg) | Substances | Purpose | CAS No. | Element wt (%) | Weight (mg) | wt % of Total unit wt | PPM |
| 1 | Molding Compound | G1250 | 93.592 | Epoxy Resin | Resin | | 5.50% | 5.148 | 2.9948% | 29,948 |
| | | | | Phenol resin | Resin | | 4.50% | 4.212 | 2.4503% | 24,503 |
| | | | | Silica(Fused) | filler | 60676-86-0 | 89.70% | 83.952 | 48.8423% | 488,423 |
| | | | | Carbon Black | Additive | 1333-86-4 | 0.30% | 0.281 | 0.1634% | 1,634 |
| 2 | Substrate | BT | 46.825 | | | | 100.00% | 46.825 | 27.2422% | 272,422 |
| 3 | DAF | EM700 | 0.895 | Solid Epoxy Resin | Base material | | 12.50% | 0.112 | 0.0651% | 651 |
| | | | | Phenol Resin | Base material | | 12.50% | 0.112 | 0.0651% | 651 |
| | | | | Fused Silica | Base material | 60676860 | 35.00% | 0.313 | 0.1822% | 1,822 |
| | | | | Synthrtic Rubber | Base material | | 40.00% | 0.358 | 0.2083% | 2,083 |
| 4 | Wire | Au0.7mil | 0.65 | Au | Base material | 7440-57-5 | 100.00% | 0.650 | 0.3782% | 3,782 |
| 5 | Solder Ball | M705 | 22.137 | Tin (Sn) | Base material | 7440-31-5 | 98.25% | 21.750 | 12.6537% | 126,537 |
| | | | | Ag | Base material | 7440-22-4 | 1.20% | 0.266 | 0.1545% | 1,545 |
| | | | | Cu | Base material | 7440-50-8 | 0.50% | 0.111 | 0.0644% | 644 |
| | | | | Ni | Base material | 7440-02-0 | 0.05% | 0.011 | 0.0064% | 64 |
| 6 | Die | 0.12mm | 7.785 | Si | Chip | 7440-21-3 | 100.00% | 7.785 | 4.5292% | 45,292 |
| | | | | | | | | 171.884 | 100.0000% | 1,000,000 |

Alliance Memory Inc. 511 Taylor Way, San Carlos, CA 94070 TEL: (650) 610-6800 FAX: (650) 620-9211
 Alliance Memory Inc. reserves the right to change products or specification without notice.