

# Product Document

Material Declaration Form

ams AG  
Tobelbader Strasse 30  
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| Ordering Code | Package Family | Assembly Material Number | Lead Count | Weight (mg) | Manufacturing Country | Halogen Free | EU RoHS | China RoHS | Release Status | Version |
|---------------|----------------|--------------------------|------------|-------------|-----------------------|--------------|---------|------------|----------------|---------|
| AS5162-HSOM   | SOIC 150 MIL   | 186210038                | 8          | 83.77       | Philippines           | YES          | YES     | YES        | FULL           | 1       |

| Homogenous Material | Weight (mg) | Symbol     | Chemical Substance  | Input Ratio (%) | CAS Number | Unit Weight (mg) | Unit Weight (%) | Amount (ppm) |
|---------------------|-------------|------------|---------------------|-----------------|------------|------------------|-----------------|--------------|
| IC                  | 7.35        | Si         | Silicon             | 100.00          | 7440-21-3  | 7.35000          | 8.77402         | 87740        |
| Subtotal:           |             |            |                     | 100.00          |            | 7.35000          | 8.77402         | 87740        |
| Moldcompound        | 38.1        | SiO2       | Silica Fused        | 86.00           | 60676-86-0 | 32.76600         | 39.11424        | 391142       |
|                     |             |            | Carbon Black        | 0.50            | 1333-86-4  | 0.19050          | 0.22741         | 2274         |
|                     |             |            | Epoxy Resin         | 7.50            | 25928-94-3 | 2.85750          | 3.41113         | 34111        |
|                     |             |            | Phenol Resin        | 6.00            | 28064-14-4 | 2.28600          | 2.72890         | 27289        |
| Subtotal:           |             |            |                     | 100.00          |            | 38.10000         | 45.48168        | 454817       |
| Wire                | 0.16        | Au         | Gold                | 99.00           | 7440-57-5  | 0.15840          | 0.18909         | 1891         |
|                     |             | Pd         | Palladium           | 1.00            | 7440-05-3  | 0.00160          | 0.00191         | 19           |
| Subtotal:           |             |            |                     | 100.00          |            | 0.16000          | 0.19100         | 1910         |
| Plating             | 1.36        | Sn         | Tin                 | 100.00          | 7440-31-5  | 1.36000          | 1.62349         | 16235        |
| Subtotal:           |             |            |                     | 100.00          |            | 1.36000          | 1.62349         | 16235        |
| Adhesive            | 1.82        | Ag         | Silver              | 73.00           | 7440-22-4  | 1.32860          | 1.58601         | 15860        |
|                     |             | BLO (1-10) | Gamma Butyrolactone | 3.00            | 96-48-0    | 0.05460          | 0.06518         | 652          |
|                     |             |            | Epoxy Resin         | 21.00           | 25928-94-3 | 0.38220          | 0.45625         | 4562         |
|                     |             |            | Silver Oxide        | 3.00            | 1301-96-8  | 0.05460          | 0.06518         | 652          |
| Subtotal:           |             |            |                     | 100.00          |            | 1.82000          | 2.17262         | 21726        |

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| Homogenous Material | Weight (mg) | Symbol    | Chemical Substance | Input Ratio (%) | CAS Number | Unit Weight (mg) | Unit Weight (%) | Amount (ppm) |
|---------------------|-------------|-----------|--------------------|-----------------|------------|------------------|-----------------|--------------|
| Leadframe           | 34.98       | Ag        | Silver             | 0.30            | 7440-22-4  | 0.10494          | 0.12527         | 1253         |
|                     |             | Cu        | Copper             | 97.25           | 7440-50-8  | 34.01805         | 40.60887        | 406089       |
|                     |             | Fe        | Iron               | 2.30            | 7439-89-6  | 0.80454          | 0.96042         | 9604         |
|                     |             | Zn        | Zinc               | 0.15            | 7440-66-6  | 0.05247          | 0.06264         | 626          |
|                     |             | Subtotal: |                    |                 | 100.00     |                  | 34.98000        | 41.75719     |
| Total:              | 83.77       |           |                    |                 |            | 83.77            | 100.00000       | 1000000      |

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