## Product Document

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| Ordering Code | Package Family | Assembly<br>Material Number | Lead<br>Count | Weight<br>(mg) | Manufacturing<br>Country | Halogen<br>Free | EU RoHS | China<br>RoHS | Release<br>Status | Version |
|---------------|----------------|-----------------------------|---------------|----------------|--------------------------|-----------------|---------|---------------|-------------------|---------|
| AS5245-HMFM   | MLF            | 177710115                   | 32            | 135.18         | Philippines              | YES             | YES     | YES           | FULL              | 1       |

| Homogenous Material | Weight (mg) | Symbol    | Chemical Substance | Input Ratio (%) | CAS Number | Unit Weight (mg) | Unit Weight (%) | Amount (ppm) |
|---------------------|-------------|-----------|--------------------|-----------------|------------|------------------|-----------------|--------------|
| Leadframe           | 71.01       | Ag        | Silver             | 0.30            | 7440-22-4  | 0.21303          | 0.15759         | 1576         |
|                     |             | Cu        | Copper             | 97.25           | 7440-50-8  | 69.05723         | 51.08539        | 510854       |
|                     |             | Fe        | Iron               | 2.30            | 7439-89-6  | 1.63323          | 1.20819         | 12082        |
|                     |             | Zn        | Zinc               | 0.15            | 7440-66-6  | 0.10652          | 0.07879         | 788          |
|                     |             | Subtotal: |                    | 100.00          |            | 71.01000         | 52.52996        | 525300       |
| Adhesive Bottom IC  | 0.98        | Ag        | Silver             | 84.00           | 7440-22-4  | 0.82068          | 0.60710         | 6071         |
|                     |             |           | Epoxy Resin        | 16.00           | 25928-94-3 | 0.15632          | 0.11564         | 1156         |
|                     |             | Subtotal: |                    | 100.00          |            | 0.97700          | 0.72274         | 7227         |
| IC Bottom           | 3.99        | Si        | Silicon            | 95.00           | 7440-21-3  | 3.78575          | 2.80053         | 28005        |
|                     |             |           | Polyimide          | 5.00            | 58698-66-1 | 0.19925          | 0.14740         | 1474         |
|                     |             | Subtotal: |                    | 100.00          |            | 3.98500          | 2.94792         | 29479        |
| Adhesive Spacer     | 0.28        | SiO2      | Silica Fused       | 34.00           | 60676-86-0 | 0.09588          | 0.07093         | 709          |
|                     |             |           | Epoxy Resin        | 66.00           | 25928-94-3 | 0.18612          | 0.13768         | 1377         |
|                     |             | Subtotal: |                    | 100.00          |            | 0.28200          | 0.20861         | 2086         |
| Spacer              | 2.34        | Si        | Silicon            | 100.00          | 7440-21-3  | 2.33900          | 1.73029         | 17303        |
|                     |             | Subtotal: |                    | 100.00          |            | 2.33900          | 1.73029         | 17303        |
| Adhesive Top IC     | 0.28        | SiO2      | Silica Fused       | 34.00           | 60676-86-0 | 0.09588          | 0.07093         | 709          |
|                     |             |           | Epoxy Resin        | 66.00           | 25928-94-3 | 0.18612          | 0.13768         | 1377         |
|                     |             | Subtotal: |                    | 100.00          |            | 0.28200          | 0.20861         | 2086         |

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## ams AG Tobelbader Strasse 30 A-8141 Premstaetten, Austria Tel +43 (0) 3136 500-0

| Homogenous Material | Weight (mg) | Symbol    | Chemical Substance | Input Ratio (%) | CAS Number | Unit Weight (mg) | Unit Weight (%) | Amount (ppm) |
|---------------------|-------------|-----------|--------------------|-----------------|------------|------------------|-----------------|--------------|
| ІС Тор              | 3.99        | Si        | Silicon            | 95.00           | 7440-21-3  | 3.78575          | 2.80053         | 28005        |
|                     |             |           | Polyimide          | 5.00            | 58698-66-1 | 0.19925          | 0.14740         | 1474         |
|                     |             | Subtotal: |                    | 100.00          |            | 3.98500          | 2.94792         | 29479        |
| Wire                | 1.11        | Au        | Gold               | 99.00           | 7440-57-5  | 1.09890          | 0.81292         | 8129         |
|                     |             | Pd        | Palladium          | 1.00            | 7440-05-3  | 0.01110          | 0.00821         | 82           |
|                     |             | Subtotal: |                    | 100.00          |            | 1.11000          | 0.82113         | 8211         |
| Moldcompound        | 48.76       | SiO2      | Silica Fused       | 85.00           | 60676-86-0 | 41.44600         | 30.65986        | 306599       |
|                     |             |           | Carbon Black       | 0.30            | 1333-86-4  | 0.14628          | 0.10821         | 1082         |
|                     |             |           | Epoxy Resin        | 9.00            | 25928-94-3 | 4.38840          | 3.24634         | 32463        |
|                     |             |           | Phenol Resin       | 5.70            | 28064-14-4 | 2.77932          | 2.05601         | 20560        |
|                     |             | Subtotal: |                    | 100.00          |            | 48.76000         | 36.07042        | 360704       |
| Plating             | 2.45        | Sn        | Tin                | 100.00          | 7440-31-5  | 2.45000          | 1.81240         | 18124        |
|                     |             | Subtotal: |                    | 100.00          |            | 2.45000          | 1.81240         | 18124        |
| Total:              | 135.18      |           |                    |                 |            | 135.18           | 100.00000       | 1000000      |

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