

# Material Declaration Form

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ams AG  
Tobelbader Strasse 30  
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Tel +43 (0) 3136 500-0



| Ordering Code | Package Family       | Assembly Material Number | Lead Count | Weight (mg) | Manufacturing Country | Halogen Free | EU RoHS | China RoHS | Release Status | Version |
|---------------|----------------------|--------------------------|------------|-------------|-----------------------|--------------|---------|------------|----------------|---------|
| AS5304A       | XDLF TSSOP;<br>4.4mm | 178750058                | 20         | 82.01       | 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           | 38.14       | Ag         | Silver              | 0.30            | 7440-22-4  | 0.11442          | 0.13952         | 1395          |
|                     |             | Cu         | Copper              | 95.90           | 7440-50-8  | 36.57626         | 44.59976        | 445998        |
|                     |             | Mg         | Magnesium           | 0.15            | 7439-95-4  | 0.05721          | 0.06976         | 698           |
|                     |             | Ni         | Nickel              | 3.00            | 7440-02-0  | 1.14420          | 1.39520         | 13952         |
|                     |             | Si         | Silicon             | 0.65            | 7440-21-3  | 0.24791          | 0.30229         | 3023          |
| <b>Subtotal:</b>    |             |            |                     | <b>100.00</b>   |            | <b>38.14000</b>  | <b>46.50652</b> | <b>465065</b> |
| Adhesive            | 1.64        | Ag         | Silver              | 73.00           | 7440-22-4  | 1.19720          | 1.45982         | 14598         |
|                     |             | BLO (1-10) | Gamma Butyrolactone | 3.00            | 96-48-0    | 0.04920          | 0.05999         | 600           |
|                     |             |            | Epoxy Resin         | 21.00           | 25928-94-3 | 0.34440          | 0.41995         | 4199          |
|                     |             |            | Silver Oxide        | 3.00            | 1301-96-8  | 0.04920          | 0.05999         | 600           |
| <b>Subtotal:</b>    |             |            |                     | <b>100.00</b>   |            | <b>1.64000</b>   | <b>1.99976</b>  | <b>19998</b>  |
| IC                  | 8.17        | Si         | Silicon             | 100.00          | 7440-21-3  | 8.17000          | 9.96220         | 99622         |
| <b>Subtotal:</b>    |             |            |                     | <b>100.00</b>   |            | <b>8.17000</b>   | <b>9.96220</b>  | <b>99622</b>  |
| Wire                | 0.42        | Au         | Gold                | 100.00          | 7440-57-5  | 0.42000          | 0.51213         | 5121          |
| <b>Subtotal:</b>    |             |            |                     | <b>100.00</b>   |            | <b>0.42000</b>   | <b>0.51213</b>  | <b>5121</b>   |
| Moldcompound        | 31.69       | SiO2       | Silica Fused        | 85.00           | 60676-86-0 | 26.93650         | 32.84538        | 328454        |
|                     |             |            | Carbon Black        | 0.30            | 1333-86-4  | 0.09507          | 0.11592         | 1159          |
|                     |             |            | Epoxy Resin         | 9.00            | 25928-94-3 | 2.85210          | 3.47775         | 34777         |
|                     |             |            | Phenol Resin        | 5.70            | 28064-14-4 | 1.80633          | 2.20257         | 22026         |
| <b>Subtotal:</b>    |             |            |                     | <b>100.00</b>   |            | <b>31.69000</b>  | <b>38.64163</b> | <b>386416</b> |

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| Homogenous Material | Weight (mg)  | Symbol | Chemical Substance | Input Ratio (%) | CAS Number | Unit Weight (mg) | Unit Weight (%)  | Amount (ppm)   |
|---------------------|--------------|--------|--------------------|-----------------|------------|------------------|------------------|----------------|
| Plating             | 1.95         | Sn     | Tin                | 100.00          | 7440-31-5  | 1.95000          | 2.37776          | 23778          |
| <b>Subtotal:</b>    |              |        |                    | <b>100.00</b>   |            | <b>1.95000</b>   | <b>2.37776</b>   | <b>23778</b>   |
| <b>Total:</b>       | <b>82.01</b> |        |                    |                 |            | <b>82.01</b>     | <b>100.00000</b> | <b>1000000</b> |

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