| MICROCHIP | | | | | | | Package Homogeneous N | Materials | | | |
|--|--|------------------------|-------------------|---------------------|-------------------|------------|---|------------------------------|-------------------|-------|--|
| Semiconductor Device Type: D5X-VQFN-16-4x4x1.0mm-MatteTin | | | | | | | | | | | |
| Sub-Component | Basic Substance | CAS Number | % Total Weight | mg/part | ppm | 19.49 | (mg) Total | Mold Compound | % of Total Weight | 46.75 | |
| Mold Compound | Epoxy Resin | Trade Secret | 3.27 | 1.36 | 32725 | | Epoxy Resin | Trade Secret | 7.00 | | |
| Mold Compound | Phenol Resin | Trade Secret | 1.40 | 0.58 | 14025 | | Phenol Resin | Trade Secret | 3.00 | | |
| Mold Compound | Silica (Amorphous) A | 60676-86-0 | 37.40 | 15.60 | 374000 | | Silica (Amorphous) A | 60676-86-0 | 80.00 | | |
| Mold Compound | Silica (Amorphous) B | 7631-86-9 | 3.27 | 1.36 | 32725 | | Silica (Amorphous) B | 7631-86-9 | 7.00 | | |
| Mold Compound | Metal Hydroxide | Trade Secret | 1.17 | 0.49 | 11688 | | Metal Hydroxide | Trade Secret | 2.50 | | |
| Mold Compound | Carbon Black | 1333-86-4 | 0.23 | 0.10 | 2338 | | Carbon Black | 1333-86-4 | 0.50 | | |
| Leadframe Leadframe | Copper | 7440-50-8 7439-89-6 | 38.90 0.99 | 16.22 0.41 | 388992 9876 | | | Total | 100.00 | | |
| | Iron | | | 0.41 | - | | T | I | T T | | |
| Leadframe | Phosphorus | 7723-14-0 | 0.05 | 0.02 | 504 | 16.81 | (mg) Total | Leadframe | % of Total Weight | 40.31 | |
| Leadframe | Zinc | 7440-66-6 | 0.05 | 0.02 | 504 | | Copper | 7440-50-8 | 96.50 | | |
| Leadframe | Silver | 7440-22-4 | 0.32 | 0.13 | 3225 | | Iron | 7439-89-6 | 2.45 | | |
| Die Attach Epoxy | Silver | 7440-22-4 | 1.28 | 0.53 | 12812 | | Phosphorus | 7723-14-0 | 0.13 | | |
| Die Attach Epoxy | exo-1,7,7-trimethylbicyclo[2.2.1]hept-2- yl methacrylate | 7534-94-3 | 0.01 | 0.01 | 131 | | Zinc | 7440-66-6 | 0.13 | | |
| Die Attach Epoxy | Dodecyl acrylate | 2156-97-0 | 0.01 | 0.01 | 131 | | Silver | 7440-22-4 | 0.80 | | |
| Die Attach Epoxy | 1,6-Hexanediol diacrylate | 13048-33-4 | 0.00 | 0.00 | 13 | | | Total | 100.00 | | |
| Die Attach Epoxy | 1-Methyl-2-pyrrolidone | 872-50-4 | 0.00 | 0.00 | 13 | | | | | | |
| Bonding Wire | Copper | 7440-50-8 | 0.77 | 0.32 | 7663 | 0.55 | (mg) Total | Die Attach Epoxy | % of Total Weight | 1.31 | |
| Bonding Wire | Palladium | 7440-05-3 | 0.02 | 0.01 | 198 | | Silver | 7440-22-4 | 97.80 | | |
| Bonding Wire | Gold | 7440-57-5 | 0.00 | 0.00 | 40 | | exo-1,7,7-trimethylbicyclo[2.2.1]hept-2- yl methacrylate | 7534-94-3 | 1.00 | | |
| Die | Doped Silicon | 7440-21-3 | 7.89 | 3.29 | 78900 | | Dodecyl acrylate | 2156-97-0 | 1.00 | | |
| Plating on External Leads | Tin | 7440-31-5 | 2.95 | 1.23 | 29500 | | 1,6-Hexanediol diacrylate | 13048-33-4 | 0.10 | | |
| | | TOTALS: | 100.00 | 41.70 | 1,000,000 | | 1-Methyl-2-pyrrolidone | 872-50-4 | 0.10 | | |
| | 41.70 n | ng Total Mass | | | | | | Total | 100.00 | | |
| e information contained in this Material Content Declaration (MCD) consists of package-level information and is not part number specific. This information is considered to be fficiently representative of all part numbers for the package type. | | | | | 0.33 | (mg) Total | Bonding Wire | % of Total Weight | 0.79 | | |
| | F==-mgo 1/po. | | | | F | | Copper | 7440-50-8 | 97.00 | | |
| icrochip Technology Incorporated designs all products to comply with global product material compliance standards, including but not limited to RoHS, REACH, and China bHS. Additionally, Microchip products are designed to be compliant with IEC62474. For specific compliance information, please check our product material compliance website | | | | | | Palladium | 7440-05-3 | 2.50 | | | |
| | | | | | | Gold | 7440-57-5 | 0.50 | | | |
| crochip.com or ask your local sales rep | resentative. | | | | | | | Total | 100.00 | | |
| icrochip Technology Incorporated believes the information in this MCD is true and correct to the best of its knowledge and belief, as of the date listed in this form. Microchip echnology Incorporated cannot guarantee the completeness and accuracy of data in this form because it has been compiled based on the ranges provided in Safety Data | | | | | 3.29 | (mg) Total | Die | % of Total Weight | 7.89 | | |
| | upplier information is often protected from disclo | | | | | | Doped Silicon | 7440-21-3 | 100.00 | | |
| | ppliers. Information is provided only as estimates llic materials which may be contained within silic | | | timates do not incl | lude trace levels | | | Total | 100.00 | | |
| crochip Technology Incorporated does not provide any warranty, express or implied, with respect to the Information provided in this declaration. The exclusive, limited | | | | | ive. limited | 1.23 | (mg) Total | Plating on External Leads | % of Total Weight | 2.95 | |
| duct warranties provided by Microchip Technology Incorporated, and its subsidiaries are contained in Microchip's standard terms and conditions of sale. These are provided | | | | | | | Tin | 7440-31-5 | | | |

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