Package Homogeneous Materials A3X-MSOP-8-3x3mm-MatteTin Semiconductor Device Type: % Total Sub-Component **Basic Substance CAS Number** mg/part ppm 20.43 (mg) Total Mold Compound % of Total Weight 79.80 Weight Trade Secret 1.43 55860 Mold Compound Epoxy Resin A Epoxy Resin A Trade Secret 7.00 5.59 Mold Compound Epoxy Resin B Trade Secret 1.60 0.41 15960 Epoxy Resin B Trade Secret 2.00 Mold Compound Phenol Resin Trade Secret 1.60 0.41 15960 Phenol Resin Trade Secret 2.00 Mold Compound Silica(Amorphous) 60676-86-0 70.62 18.08 706230 Silica(Amorphous) 60676-86-0 88 50 Mold Compound Carbon Black 1333-86-4 0.40 0.10 3990 Carbon Black 1333-86-4 0.50 Lead Frame Copper 7440-50-8 10.17 2.60 101745 Total 100.00 7439-89-6 Lead Frame Iron 0.24 0.06 2415 Lead Frame Phosphorus 7723-14-0 0.01 0.00 105 2.69 (mg) Total Lead Frame % of Total Weight 10 50 Lead Frame 7440-66-6 0.01 0.00 105 7440-50-8 Zinc Copper 96.90 Lead Frame Silver 7440-22-4 0.06 0.02 630 7439-89-6 2.30 Iron 2,2'-[[2-(oxiranylmethoxy)-1,3-Die Attach 13561-08-5 0.00 75 0.10 0.01 Phosphorus 7723-14-0 phenylene]bis(methylene)]bisoxirane Fatty acids, C18-unsatd., dimers, polymers Die Attach 68475-94-5 0.01 0.00 75 Zinc 7440-66-6 0.10 with epichlorohydrin Die Attach 9003-36-5 0.01 0.00 75 Silver 7440-22-4 0.60 bisphenol-F- (epichlorhydrin) Die Attach 0.73 0.19 7275 100 00 Silver 7440-22-4 Total Die Silicon 7440-21-3 7.50 1.92 75000 Wire Bond Copper 7440-50-8 0.20 0.05 1960 0.19 (mg) Total Die Attach % of Total Weight 0.75 2,2'-[[2-(oxiranylmethoxy)-1,3-Palladium 7440-05-3 Wire Bond 0.00 0.00 40 13561-08-5 1.00 phenylene]bis(methylene)]bisoxirane Fatty acids, C18-unsatd., dimers, Plating on external leads Tin 7440-31-5 1 25 0.32 12500 68475-94-5 1.00 polymers with epichlorohydrin TOTALS: 100.00 25.60 1.000.000 9003-36-5 1.00 bisphenol-F- (epichlorhydrin) 25.60 mg Total Mass 7440-22-4 97.00 Silver Total 100.00 The 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 sufficiently representative of all part numbers for the package type. 7 50 1.92 (mg) Total Die % of Total Weight Microchip Technology Incorporated designs all products to comply with global product material compliance standards, including but not limited to RoHS, REACH, and China 7440-21-3 Silicon 100.00 100.00 RoHS. Additionally, Microchip products are designed to be compliant with IEC62474. For specific compliance information, please check our product material compliance Total website on microchip.com or ask your local sales representative. 0.05 Wire Bond % of Total Weight 0.20 (mg) Total Microchip 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 Technology 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 Copper 7440-50-8 98.00 Sheets provided by raw material suppliers. Supplier information is often protected from disclosure as trade secrets and some information may not have been provided by Palladium 7440-05-3 2.00 subcontract assemblers and raw material suppliers. Information is provided only as estimates of the average weight of these parts. These estimates do not include trace levels Total 100.00 of dopants, impurities, metals, and non-metallic materials which may be contained within silicon devices (silicon IC) or the finished parts.

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G600V-C194-8390A 11:48 AM: 5/7/2025

(mg) Total

Tin

0.32

25.60

Plating on external

leads

7440-31-5

% of Total Weight

100.00

100.00

1.25

100.00