MICROCHIE	3

## Package Homogeneous Materials Semiconductor Device Type: QTC PBGA-456-35x35x2.60mm-SAC405 "Contained In" % Total 68.74 (mg) Total Die % of Total Weight 1.42 CAS Number Sub-Component Weight Basic Substance mg/part ppm Silicon 7440-21-3 Die 1 42 68.74 14187 Silicon 7440-21-3 100.00 Glass, oxide 65997-17-3 Substrate 4.81 232.90 48067 Total 100.00 Aluminium hydroxide oxide 24623-77-6 Substrate 2.32 112.56 23231 Bismaleimide-Triazine resin Trade Secret Substrate 1.63 78.84 16272 2010.70 (mg) Total % of Total Weight 41.50 Substrate Epoxy resin Trade Secret Substrate 1.09 52.91 10919 Glass, oxide 65997-17-3 0.84 40.46 Other substances Trade Secret Substrate 8350 Aluminium hydroxide oxide 24623-77-6 Bisphenol A 65873 Substrate 1.04 214 Bismaleimide-Triazine res Trade Secret 3.92 Glass, oxide 65997-17-3 Substrate 6.41 310.53 64089 Trade Secret Epoxy resin 2.63 Aluminium hydroxide oxide 24623-77-6 Substrate 3.10 150.08 30974 Trade Secret 2.01 Other substances Bismaleimide-Triazine resin Trade Secret Substrate 2.17 105.12 21696 Bisphenol A 65873 0.05 Epoxy resin Trade Secret Substrate 1.46 70.54 14559 Glass, oxide 65997-17-15.44 1.11 53.94 11134 Other substances Trade Secret Substrate Aluminium hydroxide oxide 24623-77-6 7.46 65873 Substrate 0.03 1.38 285 Trade Secret 5.23 Bisphenol A Bismaleimide-Triazine resir 7723-14-0 Substrate 10.78 522.20 107776 3.51 Copper Epoxy resin Trade Secret Other Organic Compounds 7439-89-6 Substrate 3.23 156.66 32333 Other substances Trade Secret 2.68 Other Epoxy Resins 7723-14-0 Substrate 0.01 0.42 86 65873 0.07 Bisphenol A Proprietary - Other Organic Compounds 7440-66-6 Substrate 0.01 0.42 Copper 7723-14-0 Phthalocyanine Blue 7440-50-8 Substrate 0.02 1 04 214 Other Organic Compounds 7439-89-6 Silicon dioxide 7439-89-6 Substrate 0.89 43.16 8908 7723-14-0 0.02 Other Epoxy Resins Barium sulfate 7723-14-0 Substrate 0.09 4.36 899 7440-66-6 Proprietary - Other Organic Compound 0.02 Others 7440-66-6 Substrate 0.03 1.45 300 Phthalocyanine Blue 7440-50-8 0.05 7440-50-8 Substrate 1.20 58.10 11991 Silicon dioxide 7439-89-6 2.15 Nickel 7440-22-4 Substrate 0.26 12.60 2600 7723-14-0 Barium sulfate 0.22 Gold Silver 7440-22-4 Die Attach 0.13 6.30 1299 Others 7440-66-6 Tetramethylene dimethacrylate 2082-81-7 Die Attach 0.01 0.71 146 Nickel 7440-50-8 Difunctional Acrylic Esters Trade Secret Die Attach 0.00 0.07 15 Gold 7440-22-4 0.63 0.40 19.30 3982 7440-57-5 Bonding Wire Palladium 2023568 Bonding Wire 0.00 0.19 40 15.49 154854 7.07 (mg) Total Die Attach % of Total Weight 0.15 Silver 7440-22-4 Solder Paste 0.65 31.43 6486 7440-22-4 89.00 7440-50-8 Copper Solder Paste 0.08 3.93 811 Tetramethylene dimethacrylate 2082-81-7 10.00 Solid Epoxy Resin Trade Secret Molding Compound 2.02 97.68 20160 Difunctional Acrylic Esters Trade Secre 1.00 Phenol Resin Trade Secret Molding Compound 0.81 39.07 8064 0.40 Carbon Black 1333-86-4 Molding Compound 19.54 4032 Metal Hydroxide Trade Secret 39.07 8064 Molding Compound 0.81 19.49 (mg) Total **Bonding Wire** % of Total Weight 0.40 1758.22 60676-86-0 36.29 362876 Amorphous silica Molding Compound Gold 7440-57-5 99.00 TOTALS: 100 00 4845 25 1 000 000 Palladium 2023568 1.00 4845.25 mg Total Mass 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 (mg) Total Solder Paste of Total Weight all part numbers for the package type. 7440-31-5 Tin 95.50 Silver 7440-22-4 4.00 Microchip Technology Incorporated designs all products to comply with global product material compliance standards, including but not limited to RoHS, REACH, and China RoHS, Additionally, Microchip Copper 7440-50-8 0.50 products are designed to be compliant with IEC62474. For specific compliance information, please check our product material compliance website on microchip.com or ask your local sales representative Total 100.00 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 1953.58 (mg) Total Molding Compound % of Total Weight 40.32 cannot guarantee the completeness and accuracy of data in this form because it has been compiled based on the ranges provided in Safety Data Sheets provided by raw material suppliers. Supplier Solid Epoxy Res Trade Secret information is often protected from disclosure as trade secrets and some information may not have been provided by 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 of dopants, impurities, metals, and non-metallic materials which may be contained within silicon devices (silicon

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Phenol Resin Trade Secret 2.00 Carbon Black 1333-86-4 Trade Secret 60676-86-0 Metal Hydroxide 2.00 90.00

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