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Package Homogeneous Materials Semiconductor Device Type: QVC PBGA-484-23x23x2.4mm-SnPB "Contained In" % Total 99 58 (mg) Total Die % of Total Weight 4 59 Basic Substance CAS Number Sub-Component Weight mg/part ppm Silicon 7440-21-3 Die 4 59 99.58 45919 7440-21-3 Organic Resin 7/130_80_6 Substrate 4 70 103 78 47852 Total 100.00 Inorganic Filler 7723-14-0 Substrate 4 70 103 78 47852 Glass Fabric 7440-66-6 Substrate 7.83 169.81 78303 729.16 (mg) Total Substrate % of Total Weight 33.62 7440-50-8 2 68 Organic Resin Substrate 58 19 26832 Organic Resin 7439-89-6 Inorganic Filler 7440-22-4 Substrate 2.68 58.19 26832 Inorganic Filler 7723-14-0 Glass Fabric 7/130_80_6 Substrate 4.39 95.22 43907 Glass Fabric 7440-66-6 23.29 Copper 7723-14-0 Substrate 4 16 90.22 41603 Organic Resin 7///0-50-8 7.98 Inorganic Filler Cured Resin Trade Secret Substrate 1.45 31.41 14482 7440-22-4 7.98 Phthalocyanine Blue 147-14-8 Substrate 0.00 0.08 38 7439-89-6 13.06 Glass Fabric 0.00 Organic Pigment Trade Secret Substrate 0.08 7723-14-0 Copper Trade Secret Substrate 0.01 0.21 96 Trade Secret 4.31 Cured Resin Barium sulfate 7727-43-7 Substrate 0.40 8.65 3990 Phthalocyanine Blue 147-14-8 0.01 Talc 14807-96-6 Substrate 0.04 0.87 403 Trade Secret 0.01 Organic Pigment Antifoamer and Leveling Agent Trade Secret Substrate 0.01 0.29 134 Trade Secret 0.03 Nickel 7440-50-8 Substrate 0.35 7.54 3479 Barium sulfate 7727-43-7 1.19 0.04 7440-22-4 Substrate 0.83 382 14807-96-6 Silver 7440-22-4 Die Attach 0.39 8.46 3903 Antifoamer and Leveling Agent Trade Secret 0.04 Tetramethylene dimethacrylate 2082-81-7 Die Attach 0.04 0.95 439 Nickel 7440-50-8 1.03 Difunctional Acrylic Esters Trade Secret Die Attach 0.00 0.10 44 Gold 7440-22-4 0.11 Gold 7440-57-5 Bonding Wire 0.71 15.43 7115 Total 100.00 Palladium 7440-05-3 Bonding Wire 0.01 0.16 72 7440-31-5 Solder Ball 16.58 359.57 165804 (mg) Total Die Attach % of Total Weight Lead 7439-92-1 Solder Ball 9.74 211.18 97377 Silver 7440-22-4 89.00 0.69 14.88 6862 Epoxy Resin A Molding Compound Tetramethylene dimethacrylate 14.88 Epoxy Resin B Trade Secret Molding Compound 0.69 6862 Difunctional Acrylic Est Trade Secr 1.00 Molding Compound 0.69 14.88 Phenol Resin B Trade Secret Molding Compound 0.69 14.88 6862 60676-86-0 558.06 (mg) Total % of Total Weight Silica(Amorphous) A Molding Compound 25.73 15.59 Bonding Wire 0.72 Silica(Amorphous) B 7631-86-9 Molding Compound 4.98 107.89 49750 7440-57-5 Gold 99.00 Metal Hydroxide Molding Compound 14.88 Trade Secre 0.69 6862 7440-05-3 Palladium Carbon Black 1333-86-4 0.17 1716 Molding Compound TOTALS: 100.00 2168.67 1.000.000 570.75 2168.67 mg Total Mass (mg) Total Solder Ball % of Total Weight 26.32 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 7439-92all part numbers for the package type 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 744.08 (mg) Total Molding Compound % of Total Weight 34.31 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 Epoxy Resin A Trade Secret Epoxy Resin B Trade Secret 2.00 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 Phenol Resin A 2.00 Trade Secret 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 Phenol Resin B Trade Secret 2.00 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 Silica(Amorphous) A 60676-86-0 75.00

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 IC) or the finished parts.

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Silica(Amorphous) B 7631-86-9 14.50 Metal Hydroxide Trade Secr Carbon Black 1333-86-4 0.50

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