

Package Homogeneous Materials MICROCHIP Semiconductor Device Type: Q7C LFBGA 256 17x17x1.7 SAC305 Contained Ir % Total 28.65 % of Total Weight 3.04 (mg) Total Die **Basic Substance** CAS Number Sub-Component Weight mg/part ppm 7440-21-3 7440-21-3 Die 30421 Silicon 100.00 3.04 28.65 COPPER (1)(4) 3.31 7440-50-8 Substrate 31.21 33133 Total 100.00 COPPER (2)(3) 7440-50-8 Substrate 3.31 31.21 33133 Nickel Plating 7440-02-0 Substrate 2 45 23.05 24467 436.47 (mg) Total Substrate % of Total Weight 46.34 Gold Plating 7440-57-5 Substrate 0.44 4.15 4402 7440-50-8 COPPER (2)(3) Copper thickness in hole 7440-50-8 Substrate 2.04 19.25 20436 7440-50-8 7 15 Nickel Plating Thermosetting resin (Including filler) Trade Secret Substrate 9.28 87.42 92809 7440-02-0 5.28 Glass cloth 65997-17-3 Substrate 6 19 58 28 61873 Gold Plating 7440-57-5 0.95 Cured thermosetting resin (including inorganic filler) Trade Secret Substrate 2.38 22.39 23775 Copper thickness in hole 7440-50-8 4 41 Continuous Filament Fiher Glass 65997-17-3 Substrate 2.38 22 39 23775 Thermosetting resin (Including filler) Trade Secret 20.03 Copper foil 7440-50-8 Substrate 2 91 27 45 29143 Glass cloth 65997-17-3 13 35 Cured thermosetting resin (including Morpholine derivative Trade Secret Substrate 0.47 4.39 4658 Trade Secret 5.13 inorganic filler) Barium Sulfate 7727-43-7 Substrate 5.36 50.46 53568 65997-17-3 5.13 Continuous Filament Fiber Glass 7631-86-9 Substrate 1165 Copper foil 7440-50-8 6.29 14807-96-6 4.39 4658 Talc Substrate 0.47 Morpholine derivative Trade Secret 1.01 Dipropylene Glycol Monomethyl Ether 34590-94-8 Substrate 26.32 27948 Barium Sulfate 7727-43-11.56 Epoxy Resin 85954-11-6 Substrate 2.45 23.03 24455 Silica 7631-86-9 0.25 Silver 7440-22-4 Die Attach Epoxy 0.37 3.47 3688 Talc 14807-96-6 1.01 2,2-dimethyl-1,3-propanediyl bismethacrylate 1985-51-9 Die Attach Epoxy 0.02 0.23 243 Dipropylene Glycol Monomethyl Ether 34590-94-8 6.03 Die Attach Epoxy 243 Epoxy resin Trade Secre 0.02 0.23 Epoxy Resin 85954-11-6 5.28 Methacrylate resin Trade Secret Die Attach Epoxy 0.02 0.23 243 Epoxy Resin A Mold Compound 27567 Trade Secret 2.76 25.97 4.16 0.44 Fpoxy Resin B Trade Secret Mold Compound 2.02 19.04 20216 (mg) Total Die Attach Epoxy % of Total Weight Phenol Resin 9003-35-4 Mold Compound 10.39 1.10 Silver 7440-22-4 83.50 2,2-dimethyl-1,3-propanediyl 60676-86-0 24.99 249945 235 42 5.50 Silica(Amorphous) A Mold Compound 1985-51-9 bismethacrylate Silica(Amorphous) B 7631-86-9 Mold Compound 2.76 25.97 27567 Trade Secret 5.50 Epoxy resin Methacrylate resir Metal Hydroxide Trade Secret Mold Compound 1.10 10.39 Trade Secret 5.50 Carbon Black 1333-86-4 Mold Compound 2.02 19.04 20216 Total 100 00 7440-50-8 Copper 0.21 2.00 2127 Palladium 7440-05-3 346.21 % of Total Weight Wire 0.00 0.03 34 (mg) Total Mold Compound 7440-57-5 Wire 0.00 0.00 Trade Secret Epoxy Resin A 7440-31-5 Solder Ball 12.74 120.01 127415 Tin Epoxy Resin B Trade Secret 5.50 7440-22-4 Solder Ball 3961 Silver 0.40 Phenol Resin 9003-35-4 Copper 7440-50-8 Solder Ball 0.62 660 68.00 Silica(Amorphous) A 60676-86-0 TOTALS: 100.00 941.90 1,000,000 7.50 7631-86-9 Silica(Amorphous) B 941.90 mg Total Mass 3.00 Metal Hydroxide Trade Secret 1333-86-4 Total Carbon Black 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 or 100.00 all part numbers for the package type. (mg) Total 0.22 2 04 Wire % 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 RoHS. Additionally, Microchip Copper 7440-50-8 98.28 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. Palladium 7440-05-3 1.55 Gold 7440-57-5 0.18 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 Total 100.00 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 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 124.37 (mg) Total Solder Ball % of Total Weight 13.20

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

Microchip Technology Incorporated does not provide any warranty, express or implied, with respect to the Information provided in this declaration. The exclusive, limited product warranties provided by Microchip Technology Incorporated, and its subsidiaries are contained in Microchip's standard terms and conditions of sale. These are provided in Microchip's quotations, sales order acknowledge and invoices

Microchip disclaims any duty to notify users of updates or changes to MCDs and shall not be liable for any damages, direct or indirect, consequential or otherwise, suffered by users or third parties as a result of the users' reliance on the information in MCDs.

7440-31-5 Tin 7440-22-4 Silver Copper 7440-50-8 100.00

EME-G750E_2100A 3:21 PM: 1/15/2025