

Device Material Content

5555 NE Moore Ct. Assembly: ASEM Hillsboro OR 97124 Package Code: Size (mm): 10 x 10 x 0.65 custrteq@latticesemi.com **72 QFN** SG72 Lead pitch (mm): 0.45 Package: **Total Device Weight** 219.4 Milligrams **Products:** MSL: 3 LIFCL Reflow max (°C): 260 May, 2021 % of Total % of Total Pkg Weight (mg) Weight (mg) Substance CAS# % of Subst. Notes / Assumptions: Pkg. Wt. Die 11.800 5.38% Die size: 4.805 x 5.185 mm 5.38% 11.800 Silicon chip 7440-21-3 100.00% Mold Compound 41.89% 91.900 Mold Compound: Sumitomo EME-G631SB (ULA) 1.68% 3.676 Epoxy Resin A 4.00% 834893-60-6 1.68% 3.676 Epoxy Resin B 4.00%2.09% 4.595 Phenol Resin 628290-34-6 5.00% 0.17% 0.368 Carbon Black 1333-86-4 0.40% 36.27% 79.585 Silica Fused 60676-86-0 86.60% Die Attach 1.91% 4.200 Die attach: Hitachi EN-4900F 0.13% 0.294 Acrylic Resin 7.00% 0.23% 0.504 Polybutadiene derivative 12.00% 0.01% 0.021 0.50% Butadiene copolymer 0.13% 0.294 2-Phenoxyethyl Acrylate 48145-04-6 7.00% 0.01% 0.021 Peroxide 0.50% 0.03% 0.063 Additive 1.50% 1.37% 3.003 Silver 7440-22-4 71.50% Wire 0.32% 0.700 0.8 mil wire diameter 0.31% 0.679 Copper 7440-50-8 97.00% 0.01% 0.018 7440-05-3 2.50% Palladium 0.00% 0.004 Gold 7440-57-5 0.50% Plating 0.36% 0.800 Plating is 100% Matte Sn; thickness is >10.2μm 0.36% 0.800 Tin (Sn) 7440-31-5 100.00% Leadframe 110.000 50.14% C194 48.48% 106.370 Copper (Cu) 7440-50-8 96.70% Nickel (Ni) 7440-02-0 3.01% 1.51% 3.311 0.09% 0.187 Silicon (Si) 7440-21-3 0.17% 0.02%0.033 Magnesium (Mg) 7439-95-4 0.03% 0.05% 0.099 Silver (Ag) 7440-22-4 0.09%

Notes:

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Rev. A