

## **Device Material Content**

5555 NE Moore Ct. Assembly: ASEK Hillsboro OR 97124 Package Code: Size (mm): 10 x 10 x 0.65 custreg@latticesemi.com Package: **72 QFN SG72** Lead pitch (mm): 0.5 Total Device Weight 228.0 Milligrams **Products:** MSL: 3 May, 2021 XO3D Reflow max (°C): 260 % of Total % of Total Weight (mg) CAS# Weight (mg) Substance % of Subst. Notes / Assumptions: Pkg. Wt. Pkg. Wt. Die 6.80% 15.50 Die size: 3.35 x 3.35 mm 6.80% 15.500 7440-21-3 100.00% Silicon chip Mold Compound 46.18% 105.30 Mold Compound: Sumitomo EME-G631SB (ULA) 3.69% 8.424 Epoxy Resin 8.00% 3.69% 8.424 Phenol Resin 8.00% 32.33% 73.710 Silica(Amorphous) A 60676-86-0 70.00% 4.62% 10.530 Silica(Amorphous) B 7631-86-9 10.00% 1.39% 3.159 Metal Hydroxide 3.00% 0.46% 1.053 Carbon black 1333-86-4 1.00% Die attach 2.54% Die attach: Hitachi EN-4900F 0.18% 0.406 Acrylic Resin 7.00% 0.31% 0.696 Polybutadiene derivative 12.00% 0.01% 0.029 Butadiene copolymer 0.50% 0.18% 0.406 2-Phenoxyethyl Acrylate 48145-04-6 7.00% 0.01% 0.029 Peroxide 0.50% 0.04% 0.087 Additive 1.50% 1.82% 4.147 Silver 7440-22-4 71.50% Wire 0.26% 0.60 0.8 mil wire diameter 0.26% 0.582 Copper (Cu) 7440-50-8 97.00% 0.01% 0.015 7440-05-3 2.50% Palladium (Pd) 0.00% 0.003 7440-57-5 0.50% Gold (Au) Plating 0.35% 0.80 Plating is 100% Matte Sn; thickness is >10.2µm 0.35% 0.798 7440-31-5 100.00% Tin (Sn) Leadframe 43.86% 100.00 C194 7440-50-8 42.67% 97.290 Copper (Cu) 97.29% 0.04% 0.080 Phosphorus (P) 7723-14-0 0.08% 0.06% 0.130 7440-66-6 0.13% Zinc Oxide 1.03% 2.350 7439-89-6 Iron (Fe) 2.35% 0.04% 0.100 7440-22-4 Silver (Ag) 0.10% 0.02% 0.050 Conducting salt 0.05%

## Notes:

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