

Device Material Content

5555 NE Moore Ct. Assembly: ASEM Hillsboro OR 97124 Package Code: Size (mm): 17 x 17 256 ftBGA (v.1) FTN256 custreg@latticesemi.com Package: Lead pitch (mm): 1.0 **Total Device Weight** 0.705 Grams **Products:** MSL: 3 June, 2022 XO, XP2 Reflow max (°C): 260 % of Total % of Total Weight (g) Weight (g) Substance CAS# Notes / Assumptions: % of Subst. Pkg. Wt. Pkg. Wt. Die 1.00% 0.0071 Die size: 5.1 x 4.9 x 0.228 mm 1.00% 0.0071 Silicon chip 7440-21-3 100.00% 55.88% 0.3940 Mold Compound: Sumitomo G750SE (ULA) Mold Compound 3.91% 0.0276 7.00% Epoxy Resin 2.79% 0.0197 Phenol Novolac 9003-35-4 5.00% 2.79% 0.0197 Metal Hydroxide 5.00% 0.28% 0.0020 Carbon Black 1333-86-4 0.50% Silica Fused 82.50% 46.10% 0.3250 60676-86-0 D/A Epoxy 0.16% 0.0011 Die attach epoxy: Henkel (Ablebond) 2100A 0.13% 0.00090 Silver 7440-22-4 80.00% 0.03% 0.00023 Esters & resins 20.00% Wire 0.49% 0.0035 0.8 mil diameter; 1 wire per solder ball 0.48% 0.0034 Copper 7440-50-8 98.50% 0.01% 0.0001 Palladium 7440-05-3 1.50% Solder Balls 13.78% 0.0971 SAC305 13.30% 0.0937 Tin (Sn) 7440-31-5 96.50% 0.41% 0.0029 Silver (Ag) 7440-22-4 3.00% 0.50% 0.07% 0.0005 Copper (Cu) 7440-50-8 Substrate 13.11% 0.0924 BT Resin CCL-HL832NX-A 4.20% 0.0296 BT Resins 32.00% 65997-17-3 8.91% 0.0628 Glass Fiber 68.00% Foil 7.43% 0.0524 6.01% 0.0424 Copper 7440-50-8 80.89% 1.37% 0.0096 Nickel 7440-02-0 18.38% 0.05% 0.0004 Gold 7440-57-5 0.73% Solder Mask Solder mask PSR4000 AUS 308 4.58% 0.0323 14808-60-7 56.20% Quartz 0.0092 3-methoxy-3-methylbutylacetate 103429-90-9 1.30% 16.00% 1.79% 0.0126 Barium Sulfate 7727-43-7 22.00% 0.24% 0.0017 Talc (containing no asbestiform fibers) 14807-96-6 3.00% 0.23% 0.0016 Trade secret ingredients 2.80%

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