

Device Material Content

5555 NE Moore Ct. Assembly: ASEM Hillsboro OR 97124 Package Code: Size (mm): 15 x 15 BG324 custreg@latticesemi.com Package: 324 caBGA Lead pitch (mm): 0.8 **Total Device Weight** 0.586 Grams **Products:** MSL: 3 June, 2022 XO3 Reflow max (°C): 260 % of Total % of Total Weight (g) Weight (g) CAS# Substance % of Subst. Notes / Assumptions: Pkg. Wt. Pkg. Wt. Die 1.28% 0.0075 Die size: 3.7 x 3.7 mm 1.28% 0.0075 Silicon chip 7440-21-3 100.00% 51.47% 0.3016 Mold Compound: Sumitomo G750SE Mold Compound 3.60% 0.0211 7.00% Epoxy Resin 2.57% 0.0151 Phenol Novolac 9003-35-4 5.00% 2.57% 0.0151 Metal Hydroxide 5.00% 0.26% 0.0015 Carbon Black 1333-86-4 0.50% Silica Fused 42.46% 0.2488 60676-86-0 82.50% D/A Epoxy 0.21% 0.0012 Die attach epoxy: Henkel (Ablebond) 2100A 0.17% 0.00098 Silver 7440-22-4 80.00% 0.04% 0.00025 Esters & resins 20.00% Wire 0.69% 0.0040 0.8 mil diameter; 1 wire per solder ball 0.68% 0.0040 Copper 7440-50-8 98.50% 0.01% 0.0001 Palladium 7440-05-3 1.50% Solder Balls 20.67% 0.1211 SAC305 19.95% 0.1169 Tin (Sn) 7440-31-5 96.50% 0.62% 0.0036 Silver (Ag) 7440-22-4 3.00% 0.10% 0.0006 Copper (Cu) 7440-50-8 0.50% Substrate 16.69% 0.0978 BT Resin CCL-HL832NX-A 11.35% 0.0665 Glass fiber 65997-17-3 68.00% 32.00% 5.34% 0.0313 BT Resins Foil 3.71% 0.0218 2.75% 0.0161 Copper 7440-50-8 74.07% 0.92% 0.0054 Nickel 7440-02-0 24.69% 0.05% 0.0003 Gold 7440-57-5 1.24% Solder Mask Solder mask PSR4000 AUS 308 14808-60-7 2.96% 0.0174 Quartz 56.20% 3-methoxy-3-methylbutylacetate 0.84%0.0049 103429-90-9 16.00% 1.16% 0.0068 Barium Sulfate 7727-43-7 22.00% 0.16% 0.0009 Talc (containing no asbestiform fibers) 14807-96-6 3.00% 0.15% 0.0009 Trade secret ingredients 2.80%

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