

Device Material Content

5555 NE Moore Ct. Assembly: ASEM Hillsboro OR 97124 Package Code: Size (mm): 8 x 8 custreg@latticesemi.com Package: 184 csBGA MG184 Lead pitch (mm): 0.5 Products: **Total Device Weight** 0.174 Grams MSL: 3 XO2 Reflow max (°C): 260 June, 2022 % of Total % of Total Weight (g) Weight (g) CAS# Substance % of Subst. Notes / Assumptions: Pkg. Wt. Pkg. Wt. Die 4.50% 0.0078 Die size: 3.63 x 3.73 mm 4.50% 0.0078 Silicon chip 7440-21-3 100.00% 49.62% 0.0863 Mold Compound: Sumitomo G750SE (ULA) Mold Compound 2.48% 0.0043 5.00% Epoxy Resin A 0.74% 0.0013 Epoxy Resin B 1.50% 2.48% 0.0043 Phenol Novolac 9003-35-4 5.00% 2.48% 0.0043 Metal Hydroxide 5.00% Carbon Black 0.15% 0.0003 1333-86-4 0.30% Silica Fused 41.28% 0.0718 60676-86-0 83.20% D/A Epoxy 0.65% 0.0011 Die attach epoxy: Henkel (Ablebond) 2100A 0.52% 0.00090 Silver 7440-22-4 80.00% 0.13% 0.00023 Esters & resins 20.00% Wire 5.29% 0.0092 0.8 mil diameter; 1 wire per solder ball 5.21% 0.0091 Copper 7440-50-8 98.50% 0.08% 0.0001 Palladium 7440-05-3 1.50% Solder Balls 9.50% 0.0165 SAC305 9.17% 0.0160 Tin (Sn) 7440-31-5 96.50% 0.29% 0.0005 Silver (Ag) 7440-22-4 3.00% 0.05% 0.0001 Copper (Cu) 7440-50-8 0.50% Substrate 20.70% BT Resin CCL-HL832NX-A 6.62% 0.0115 BT Resins 32.00% 14.07% 0.0245 Glass fiber 65997-17-3 68.00% Foil 4.68% 81.22% 3.80% 0.00661 Copper 7440-50-8 0.85% 0.00147 Nickel 7440-02-0 18.06% 0.03% Gold 7440-57-5 0.71% 0.00006 Solder Mask 5.07% 0.0088 Solder mask PSR4000 AUS 308 2.85% 0.00496 Quartz 14808-60-7 56.20% 0.81%0.00141 3-methoxy-3-methylbutylacetate 103429-90-9 16.00% 1.12% 0.00194 Barium Sulfate 7727-43-7 22.00% 0.15% 0.00026 Talc (containing no asbestiform fibers) 14807-96-6 3.00% 0.14% 0.00025 Trade secret ingredients 2.80%

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