

Device Material Content

5555 NE Moore Ct. Assembly: ASEM Hillsboro OR 97124 Package Code: Size (mm): 14 x 14 custreg@latticesemi.com Package: 256 caBGA CT256 Lead pitch (mm): 0.8 **Total Device Weight** 0.425 Grams **Products:** MSL: 3 June, 2022 ICE40HX Reflow max (°C): 260 % of Total % of Total Weight (g) Weight (g) CAS# Substance % of Subst. Notes / Assumptions: Pkg. Wt. Pkg. Wt. Die 0.88% 0.0037 Die size: 2.69 x 2.41 mm 0.88% 0.0037 Silicon chip 7440-21-3 100.00% 0.2608 Mold Compound: Kyocera KE-G1250LKDS Mold Compound 61.36% 53.69% 0.2282 60676-86-0 87.50% Silica 3.99% 0.0170 6.50% Epoxy resin 3.37% 0.0143 Phenol Resin 5.50% 0.31% 0.0013 Carbon Black 1333-86-4 0.50% D/A Epoxy 0.04% 0.0002 Die attach epoxy: Henkel (Ablebond) 2100A 0.01% 0.00003 Epoxy Resin 15.00% 0.01% 0.00003 Phenol Resin 15.00% 0.00% 0.00001 SiO2 Filler 99439-28-8 5.00% 0.03% 0.00011 (Meta)Acrylic Copolymer 65.00% Wire 0.37% 0.7 mil diameter; 1 wire per solder ball 0.36% 0.00155 Copper 7440-50-8 98.00% 0.01% 0.00003 Palladium 7440-05-3 2.00% Solder Balls 16.50% 0.0701 SAC305 15.92% 0.0677 Tin (Sn) 7440-31-5 96.50% 0.50% 0.0021 Silver (Ag) 7440-22-4 3.00% 0.08% 0.0004 Copper (Cu) 7440-50-8 0.50% Substrate 9.53% 0.0405 BT Resin CCL-HL832NX-A 3.05% 0.0130 BT Resins 32.00% 6.48% 0.0275 Glass fiber 65997-17-3 68.00% Foil 5.36% 0.0228 4.33% 0.0184 Copper 7440-50-8 80.75% 0.99% 0.0042 Nickel 7440-02-0 18.51% 0.04% 0.0002 Gold 7440-57-5 0.74% Solder Mask 5.95% 0.0253 Solder mask PSR4000 AUS 308 3.35% 0.0142 Quartz 14808-60-7 56.20% 0.95% 0.0040 3-methoxy-3-methylbutylacetate 103429-90-9 16.00% 1.31% 0.0056 Barium Sulfate 7727-43-7 22.00% 0.18% 0.0008 Talc (containing no asbestiform fibers) 14807-96-6 3.00% 0.17% 0.0007 Trade secret ingredients 2.80%

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