

www.latticesemi.com

## **Device Material Content**

5555 NE Moore Ct. Assembly: ASEM Hillsboro OR 97124 Package Code: Size (mm): 7 x 7 CM225 custreg@latticesemi.com Package: 225 ucBGA Lead pitch (mm): 0.4 **Total Device Weight** 0.080Grams **Products:** MSL: 3 June, 2022 ICE40LP/HX Reflow max (°C): 260 % of Total % of Total Weight (g) Weight (g) CAS# Substance % of Subst. Notes / Assumptions: Pkg. Wt. Pkg. Wt. Die 4.63% 0.0037 Die size: 3.35 x 3.07 mm 4.63% 0.0037 Silicon chip 7440-21-3 100.00% 0.0482 Mold Compound: Kyocera KEG1250 LKDS Mold Compound 60.18% 52.66% 0.0422 60676-86-0 87.50% Silica 3.91% 0.0031 Epoxy resin 6.50% 3.31% 0.0027 Phenol Resin 5.50% 0.30% 0.00024 Carbon Black 1333-86-4 0.50% Die attach 0.67% 0.00054 Ablebond 2100A 0.54% 0.000431 Silver 7440-22-4 80.00% 0.13% 0.000108 Esters & resins 20.00% 1.18% 0.0009 0.7 mil diameter; 1 wire per solder ball Wire 1.14% 0.00092 Copper 7440-50-8 97.30% 0.03% 0.00003 Palladium 7440-05-3 2.70% Solder Balls 2.41% 0.00194 SAC105 2.38% 0.00191 Tin (Sn) 7440-31-5 98.50% 0.02% 0.00002 Silver (Ag) 7440-22-4 1.00% 0.01% 0.00001 Copper (Cu) 7440-50-8 0.50% Substrate 14.73% 0.0118 BT Resin CCL-HL832NX-A 4.71% 0.0038 BT Resins 32.00% 10.01% 0.0080 Glass fiber 65997-17-3 68.00% Foil 11.78% 0.0094 9.66% 0.0077 7440-50-8 82.00% Copper 1.78% 0.0014 Nickel 7440-02-0 15.10% 0.34% 0.0003 Gold 7440-57-5 2.91% Solder Mask 4.42% 0.0035 Solder mask PSR4000 AUS 308 2.48% 0.00199 Quartz 14808-60-7 56.20% 3-methoxy-3-methylbutylacetate 0.71% 0.00057 103429-90-9 16.00% 22.00% 0.97% 0.00078 Barium Sulfate 7727-43-7 0.13% 0.00011 Talc (containing no asbestiform fibers) 14807-96-6 3.00% 0.12% 0.00010 Trade secret ingredients 2.80%

Lattice regards this materials information to be correct but makes no guarantee as to its accuracy or completeness, including, but not limited to, with respect to its compliance with applicable environmental laws and regulations. Lattice subcontracts the production, test and assembly of hardware devices to independent third-party vendors and materials suppliers ("Contractors"). All data provided hereunder is based on information received from Contractors. Lattice has not independently verified the accuracy or completeness of this information which is provided solely for your reference in connection with the use of Lattice products.





