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## **Device Material Content**

Assembly: ASEK 5555 NE Moore Ct. Hillsboro OR 97124 Package Code: Size (mm): 17 x 17 custreq@latticesemi.com 400 caBGA **BG400** Lead pitch (mm): 0.8 Package: **Total Device Weight** 0.719 Grams **Products:** MSL: 3 November, 2020 LCMXO3/XO3D-9400 Reflow max (°C): 260 % of Total % of Total Weight (g) Weight (g) Substance CAS# % of Subst. Notes / Assumptions: Pkg. Wt. Pkg. Wt. Die 0.0120 Die size: 5.092 x 4.968 mm 1.67% 1.67% 0.0120 Silicon chip 7440-21-3 100.00% Mold Compound 55.60% 0.3999 Mold Compound: Kyocera KE-G1250AHT 48.65% 0.3499 Silica 60676-86-0 87.50% 3.61% 0.0260 Epoxy resin 6.50% 3.06% 0.0220 Phenol Resin 5.50% 0.28% 0.0020 Carbon Black 1333-86-4 0.50% D/A Epoxy 0.60% 0.0043 Die attach epoxy: Henkel 2100A 0.48% 0.00345 Silver 7440-22-4 80.00% 20.00% 0.12% 0.00086 Esters & resins Wire 0.39% 0.0028 AuPCC+, 0.02mm dia 0.379% 0.00273 Copper (Cu) 7440-50-8 97.20% 0.010% 0.00007 Palladium (Pd) 7440-05-3 2.50% 0.001% 0.00001 Gold (Au) 7440-57-5 0.30% Solder Balls 0.1118 SAC305 15.55% 15.00% 0.1079 7440-31-5 96.50% Tin (Sn) 0.47% 0.0034 Silver (Ag) 7440-22-4 3.00% 0.08% 7440-50-8 0.50% 0.0006 Copper (Cu) 10.22% 0.0735 BT Resin CCL-HL832NX-A Substrate 3.27% 0.0235 BT Resins 32.00% 6.95% 0.0500 Glass fiber 65997-17-3 68.00% Foil 5.24% 0.0377 4.06% 0.0292 Copper 7440-50-8 77.39% 1.00% 0.0072 7440-02-0 19.02% Nickel plating 0.0014 Gold plating 7440-57-5 3.59% 0.19% Solder Mask 10.74% Solder mask PSR4000 AUS 320 0.0773 2.53% 0.0182 64742-94-5 23.52% Solvent naphtha (petroleum) 0.63% 0.0045 Naphthalene 91-20-3 5.87% 1.58% 0.0114 Phosphinoxide derivative 14.70% 1.58% 0.0114 Talc 14807-96-6 14.70% 1.89% 0.0136 Dipropylene glycol monomethyl Ether 34590-94-8 17.63% Epoxy Resin 1.58% 0.0114 85954-11-6 14.70% 0.95% 0.0069 Barium Sulfate 7727-43-7 8.88%

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