



Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124 custreq@latticesemi.com					Package Code: BG256			Assembly: ASEK Size (mm): 14 x 14 Lead pitch (mm): 0.8 MSL: 3 Reflow max (°C): 260	
Package: 256 caBGA Total Device Weight 0.634 Milligrams					Products: XO3L/LF-9400				
May, 2022	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS #	% of Subst.	Notes / Assumptions:	
Die	1.89%	0.012	1.89%	0.012	Silicon chip	7440-21-3	100.00%	Die size: 5.092 x 4.968 mm	
Mold Compound	52.42%	0.332	45.87% 3.41% 2.88% 0.26%	0.291 0.022 0.018 0.002	Silica Epoxy resin Phenol Resin Carbon Black	60676-86-0 - - 1333-86-4	87.50% 6.50% 5.50% 0.50%	Kyocera KE-G1250AHT (ULA)	
D/A Epoxy	0.68%	0.004	0.54% 0.14%	0.003 0.001	Silver Epoxy Resin	7440-22-4 -	80.00% 20.00%	Die attach epoxy: Henkel (Ablebond) 2100A	
Wire	0.28%	0.002	0.27% 0.01% 0.00%	0.002 0.000 0.000	Copper Palladium Gold	7440-50-8 7440-05-3 7440-57-5	96.55% 3.10% 0.35%	CuPdAu+	
Solder Balls	22.12%	0.140	21.35% 0.66% 0.11%	0.135 0.004 0.001	Tin (Sn) Silver (Ag) Copper (Cu)	7440-31-5 7440-22-4 7440-50-8	96.50% 3.00% 0.50%	SAC305	
Substrate	16.39%	0.1039	5.24% 11.15%	0.033 0.071	BT Resins Glass fiber	- 65997-17-3	32.00% 68.00%	BT Resin CCL-HL832NX-A	
Foil	2.03%	0.0129	2.03%	0.013	Copper	7440-50-8	100.00%		
Solder Mask	4.18%	0.0265	0.98% 1.60% 0.61% 0.61% 0.37%	0.006 0.010 0.004 0.004 0.002	Solvent naphtha (petroleum) Phosphin oxide derivative Talc (containing no asbestiform fibers) Epoxy Resin Barium Sulfate	64742-94-5 - 14807-96-6 85954-11-6 7727-43-7	23.52% 38.20% 14.70% 14.70% 8.88%	Solder mask PSR4000 AUS 320	

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