



Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124 custreq@latticesemi.com		Package: 256 caBGA Total Device Weight 497.48 Milligrams			Package Code: BG256	Assembly: ASEK Size (mm): 14 x 14 x 0.7 Lead pitch (mm): 0.8 MSL: 3 Reflow max (°C): 260			
March, 2021					Products: LIFCL-17				
	% of Total Pkg. Wt.	Weight (mg)	% of Total Pkg. Wt.	Weight (mg)	Substance	CAS #	% of Subst.	Notes / Assumptions:	
Die	1.72%	8.57	1.72%	8.57	Silicon chip	7440-21-3	100.00%	Die size: 4.81 x 3.77mm	
Mold Compound	54.37%	270.47	47.57%	236.66	Silica	60676-86-0	87.50%	Mold Compound: Kyocera KE-G1250AAS (ULA)	
			3.53%	17.58	Epoxy resin	-	6.50%		
			2.99%	14.88	Phenol Resin	-	5.50%		
			0.27%	1.35	Carbon Black	1333-86-4	0.50%		
D/A Epoxy	0.62%	3.10	0.50%	2.48	Silver	7440-22-4	80.00%	Die attach epoxy: Henkel (Ablebond) 2100A	
			0.12%	0.62	Esters & resins	-	20.00%		
Wire	0.22%	1.12	0.22%	1.08	Copper	7440-50-8	96.55%	0.8 mil diameter; 1 wire per solder ball	
			0.01%	0.03	Palladium	7440-05-3	3.10%		
			0.00%	0.00	Gold	7440-57-5	0.35%		
Solder Balls	19.73%	98.16	19.04%	94.73	Tin (Sn)	7440-31-5	96.50%	SAC305	
			0.59%	2.94	Silver (Ag)	7440-22-4	3.00%		
			0.10%	0.49	Copper (Cu)	7440-50-8	0.50%		
Substrate	6.53%	32.49	2.09%	10.40	BT Resins	-	32.00%	BT Resin CCL-HL832NX-A	
			4.44%	22.09	Glass fiber	65997-17-3	68.00%		
Foil	11.67%	58.04	11.52%	57.29	Copper (Cu)	7440-50-8	98.70%		
			0.15%	0.75	OSP	-	1.30%		
Solder Mask	5.13%	25.53	2.88%	14.35	Quartz	14808-60-7	56.20%	Solder mask PSR4000 AUS 308	
			0.82%	4.08	3-methoxy-3-methylbutylacetate	103429-90-9	16.00%		
			1.13%	5.62	Barium Sulfate	7727-43-7	22.00%		
			0.15%	0.77	Talc (containing no asbestiform fibers)	14807-96-6	3.00%		
			0.03%	0.13	Naphthalene	91-20-3	0.50%		
			0.12%	0.59	Trade secret ingredients	-	2.30%		

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.

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Rev. A



Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124 custreq@latticesemi.com		Package: 256 caBGA Total Device Weight 496.22 Milligrams			Package Code: BG256	Assembly: ASEK Size (mm): 14 x 14 x 0.7 Lead pitch (mm): 0.8 MSL: 3 Reflow max (°C): 260			
May, 2021					Products: LIFCL-40, LFD2NX-40				
	% of Total Pkg. Wt.	Weight (mg)	% of Total Pkg. Wt.	Weight (mg)	Substance	CAS #	% of Subst.	Notes / Assumptions:	
Die	2.38%	11.79	2.38%	11.79	Silicon chip	7440-21-3	100.00%	Die size: 4.81 x 3.77mm	
Mold Compound	53.18%	263.89	46.53%	230.90	Silica	60676-86-0	87.50%	Mold Compound: Kyocera KE-G1250AAS (ULA)	
			3.46%	17.15	Epoxy resin	-	6.50%		
			2.92%	14.51	Phenol Resin	-	5.50%		
			0.27%	1.32	Carbon Black	1333-86-4	0.50%		
D/A Epoxy	0.86%	4.27	0.69%	3.41	Silver	7440-22-4	80.00%	Die attach epoxy: Henkel (Ablebond) 2100A	
			0.17%	0.85	Esters & resins	-	20.00%		
Wire	0.47%	2.34	0.46%	2.26	Copper	7440-50-8	96.55%	0.8 mil diameter; 1 wire per solder ball	
			0.01%	0.07	Palladium	7440-05-3	3.10%		
			0.00%	0.01	Gold	7440-57-5	0.35%		
Solder Balls	19.78%	98.14	19.08%	94.70	Tin (Sn)	7440-31-5	96.50%	SAC305	
			0.59%	2.94	Silver (Ag)	7440-22-4	3.00%		
			0.10%	0.49	Copper (Cu)	7440-50-8	0.50%		
Substrate	6.53%	32.40	2.09%	10.37	BT Resins	-	32.00%	BT Resin CCL-HL832NX-A	
			4.44%	22.03	Glass fiber	65997-17-3	68.00%		
Foil	11.67%	57.91	11.52%	57.16	Copper (Cu)	7440-50-8	98.70%		
			0.15%	0.75	OSP	-	1.30%		
Solder Mask	5.13%	25.47	2.88%	14.31	Quartz	14808-60-7	56.20%	Solder mask PSR4000 AUS 308	
			0.82%	4.07	3-methoxy-3-methylbutylacetate	103429-90-9	16.00%		
			1.13%	5.60	Barium Sulfate	7727-43-7	22.00%		
			0.15%	0.76	Talc (containing no asbestiform fibers)	14807-96-6	3.00%		
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Rev. A1