

Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124 custreg@latticesemi.com May, 2021	Package: Total Device Weight				Package Code: BG400 Products: LIFCL	Assembly: ASEK Size (mm): 17 x 17 x 0.7 Lead pitch (mm): 0.8 MSL: 3 Reflow max (°C): 260		
	% of Total Pkg. Wt.	Weight (mg)	% of Total Pkg. Wt.	Weight (mg)	Substance	CAS#	% of Subst.	Notes / Assumptions:
Die	1.59%	11.796	1.59%	11.796	Silicon chip	7440-21-3	100.00%	Die size: 4.805 x 5.185mm
Mold Compound	53.84%	400.272	47.11% 3.50% 2.96% 0.27%	350.238 26.018 22.015 2.001	Silica Epoxy resin Phenol Resin Carbon Black	60676-86-0	87.50% 6.50% 5.50% 0.50%	Mold Compound: Kyocera KE-G1250AAS
D/A Epoxy	0.57%	4.247	0.46% 0.11%	3.398 0.849	Silver Esters & resins	7440-22-4	80.00% 20.00%	Die attach epoxy: Henkel (Ablebond) 2100A
Wire	0.35%	2.635	0.35% 0.01% 0.00%	2.595 0.040 0.000	Copper Palladium Gold	7440-50-8 7440-05-3 7440-57-5	98.50% 1.50%	0.8 mil diameter; 1 wire per solder ball
Solder Balls	20.63%	153.376	19.91% 0.62% 0.10%	148.007 4.601 0.767	Tin (Sn) Silver (Ag) Copper (Cu)	7440-31-5 7440-22-4 7440-50-8	96.50% 3.00% 0.50%	SAC305
Substrate	5.98%	44.489	1.91% 4.07%	14.237 30.253	BT Resins Glass fiber	65997-17-3	32.00% 68.00%	BT Resin CCL-HL832NX-A
Foil	1.61%	11.977	1.61%	11.977	Copper	7440-50-8	100.00%	
Solder Mask	15.42%	114.673	8.39% 1.13% 0.51% 0.46% 0.46% 0.04% 4.43%	62.348 8.406 3.807 3.440 3.440 0.275 32.957	Quartz Dipropylene glycol monomethyl ether Morpholine derivative Silicon dioxide Silica, amorphous Carbon black Trade secret ingredients	14808-60-7 34590-94-8 71868-10-5 7631-86-9 112945-52-5 1333-86-4	54.37% 7.33% 3.32% 3.00% 3.00% 0.24% 28.74%	Solder mask PSR4000 AUS 308

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