



## Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124 <a href="mailto:custreq@latticesemi.com">custreq@latticesemi.com</a>				<b>Package Code:</b> <b>BFG484</b>			Assembly: ASEK Size (mm): 19 x 19	
<b>Package:</b> 484 fpBGA				<b>Products:</b> LFCPNX-100			Lead pitch (mm): 1.0 MSL: 3 Reflow max (°C): 260	
<b>Total Device Weight</b> 3.141 Grams								
June, 2022								
	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS #	% of Subst.	Notes / Assumptions:
<b>Die</b>	0.89%	0.0280	0.89%	0.0280	Silicon chip	7440-21-3	100.00%	Die size: 8.22 x 7.19 mm
<b>Mold Compound</b>	73.72%	2.3158	3.69%	0.1158	Epoxy Resin	-	5.00%	Mold Compound: CEL-9750ZHF10AKL-U (ULA)
			3.69%	0.1158	Phenol Resin	-	5.00%	
			0.15%	0.0046	Carbon Black	1333-86-4	0.20%	
			64.73%	2.0333	Silica	60676-86-0	87.80%	
			1.47%	0.0463	Others	-	2.00%	
<b>D/A Epoxy</b>	0.32%	0.0100	0.25%	0.0080	Silver	7440-22-4	80.00%	Die attach: Henkel (Ablebond) 2100A
			0.06%	0.0020	Esters & resins	-	20.00%	
<b>Wire</b>	0.19%	0.0061	0.19%	0.0059	Copper	7440-50-8	96.55%	0.8 mil diameter; 1 wire per solder ball
			0.01%	0.0002	Palladium	7440-05-3	3.10%	
			0.00%	0.0000	Gold	7440-57-5	0.35%	
<b>Solder Balls</b>	10.21%	0.3207	9.85%	0.3095	Tin (Sn)	7440-31-5	96.50%	SAC305
			0.31%	0.0096	Silver (Ag)	7440-22-4	3.00%	
			0.05%	0.0016	Copper (Cu)	7440-50-8	0.50%	
<b>Substrate</b>	4.69%	0.1475	1.50%	0.0472	BT Resins	-	32.00%	MGC CCL-HL832NX-A
			3.19%	0.1003	Glass fiber	65997-17-3	68.00%	
<b>Foil</b>	7.92%	0.2489	7.91%	0.2486	Copper	7440-50-8	99.90%	
			0.01%	0.0002	OSP	-	0.10%	
<b>Solder Mask</b>	2.05%	0.0645	1.15%	0.0363	Quartz	14808-60-7	56.20%	Taiyo Ink PSR4000 AUS 308
			0.33%	0.0103	3-methoxy-3-methylbutylacetate	103429-90-9	16.00%	
			0.45%	0.0142	Barium Sulfate	7727-43-7	22.00%	
			0.06%	0.0019	Talc (containing no asbestiform fibers)	14807-96-6	3.00%	
			0.06%	0.0018	Trade secret ingredients	-	2.80%	

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