



Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124 custreq@latticesemi.com				Package Code: SN32			Assembly: ASEM Size (mm): 5 x 5 x 0.9mm Lead pitch (mm): 0.5 MSL: 3 Reflow max (°C): 260		
Package: 32 QFNS (v1)		Total Device Weight 0.113 Grams		Products: PAC-POWR					
August, 2019									
	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS #	% of Subst.	Notes / Assumptions:	
Die	1.70%	0.0019	1.70%	0.0019	Silicon chip	7440-21-3	100.00%	Die size: 1.80 x 1.75 x 0.254 mm	
Mold Compound	68.90%	0.0776	4.34%	0.0049	Epoxy Resin	-	6.30%	Mold Compound: Hitachi CEL9240HF10AK	
			3.10%	0.0035	Phenol Resin	-	4.50%		
			0.14%	0.0002	Carbon Black	1333-86-4	0.20%		
			60.63%	0.0683	Silica	60676-86-0	88.00%		
			0.69%	0.0008	Others	-	1.00%		
D/A Epoxy	0.43%	0.0005	0.33%	0.00037	Silver (Ag)	7440-22-4	77.00%	Die attach: Sumitomo CRM-1076DS	
			0.05%	0.00006	Epoxy Resin	9003-36-5	12.50%		
			0.03%	0.00003	t-Butyl phenyl glycidyl ether	3101-60-8	6.50%		
			0.012%	0.00001	Phenolic resin	9003-35-4	2.80%		
			0.005%	0.00001	Epoxy silane	2530-83-8	1.20%		
Wire	0.38%	0.0004	0.378%	0.000426	Gold (Au)	7440-57-5	99.00%	0.8 mil GPG-2	
			0.004%	0.000004	Palladium (Pd)	7440-05-3	1.00%		
Plating	1.24%	0.0014	1.24%	0.0014	Tin (Sn)	7440-31-5	100.00%	Plating is 100% Matte Sn; thickness is >10.2µm	
Leadframe	27.35%	0.0308	26.48%	0.02983	Copper (Cu)	7440-50-8	96.84%	C194	
			0.02%	0.00002	Phosphorus (P)	7723-14-0	0.08%		
			0.04%	0.00004	Zinc (Zn)	7440-66-6	0.13%		
			0.64%	0.00072	Iron (Fe)	7439-89-6	2.35%		
			0.03%	0.00003	Silver (Ag)	7440-22-4	0.10%		
			0.14%	0.00015	Conducting salt	-	0.50%		

Notes:

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.

PCN#07A-19
Rev. B