



Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124 custreq@latticesemi.com		Package Code: 72 WLCSP			Assembly: ASEK Size (mm): 3.81 x 4.13 Lead pitch (mm): 0.4 MSL: 3 Reflow max (°C): 260			
Package: 72 WLCSP		Package Code: UWG72			Products: LIFCL			
Total Device Weight 19.936		Milligrams						
May, 2021								
	% of Total Pkg. Wt.	Weight (mg)	% of Total Pkg. Wt.	Weight (mg)	Substance	CAS #	% of Subst.	Notes / Assumptions:
Die	62.95%	12.550	62.95%	12.5498	Silicon chip	7440-21-3	100.00%	Die size:4.085 x 3.767 mm
Polyimide 1	1.82%	0.363	0.910% 0.637% 0.091% 0.091% 0.091%	0.181418 0.126993 0.018142 0.018142 0.018142	4-Butyrolactone Polyamide 1-Methoxy-2-propyl acetate Photo Active Compound Proprietary Additives	96-48-0 - 108-65-6 - -	50.00% 35.00% 5.00% 5.00% 5.00%	PBO HD8820
RDL(1) metalization	0.04%	0.0079	0.040%	0.0079	Titanium (Ti)	7440-32-6	100.00%	
RDL(2) metalization	3.25%	0.6475	3.248%	0.0079	Copper (Cu)	7440-50-8	100.00%	
UBM (1)	0.04%	0.0079	0.040%	0.0079	Titanium (Ti)	7440-32-6	100.00%	
UBM (2)	6.57%	1.3104	6.573%	0.0079	Copper (Cu)	7440-50-8	100.00%	
Solder Balls	21.74%	4.334	20.75% 0.87% 0.11% 0.01%	4.13641 0.17334 0.02167 0.00217	Tin (Sn) Silver (Ag) Copper (Cu) Nickel (Ni)	7440-31-5 7440-22-4 7440-50-8 7440-02-0	95.45% 4.00% 0.50% 0.05%	SAC405
BSC (coating film)	3.59%	0.716	2.33% 0.70% 0.27% 0.27% 0.02%	0.465170 0.139551 0.053673 0.053673 0.003578	Polybutylene terephthalate (PBT) Silica Other Epoxy resins Other Acrylic resins Carbon black	25038-59-9 60676-86-0 - - 1333-86-4	65.00% 19.50% 7.50% 7.50% 0.50%	Adwill LC 2850
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. www.latticesemi.com								

