



Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124 custreq@latticesemi.com					Package Code: UUG36		Assembly: ASEK Size (mm): 2.541 x 2.487 Lead pitch (mm): 0.4 MSL: 1 Reflow max (°C): 260	
July, 2026	Package: 36 WLCSP		Total Device Weight 5.874		Products: XO4			
	% of Total Pkg. Wt.	Weight (mg)	% of Total Pkg. Wt.	Weight (mg)	Substance	CAS #	% of Subst.	Notes / Assumptions:
Die	53.01%	3.1139	53.01%	3.1139	Silicon chip	7440-21-3	100.00%	
Repassivation	2.54%	0.1491	1.27% 0.89% 0.13% 0.13% 0.13%	0.0746 0.0522 0.0075 0.0075 0.0075	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%	HD8820
RDL 1	0.056%	0.0033	0.06%	0.0033	Titanium (Ti)	7440-32-6	100.00%	
RDL 2	4.54%	0.2664	4.54%	0.2664	Copper (Cu)	7440-50-8	100.0%	
UBM 1	0.056%	0.0033	0.06%	0.0033	Titanium (Ti)	7440-32-6	100.0%	
UBM 2	9.179%	0.5392	9.18%	0.5392	Copper (Cu)	7440-50-8	100.0%	
Solder Balls	25.61%	1.5047	24.46% 1.02% 0.13%	1.4370 0.0602 0.0075	Tin (Sn) Silver (Ag) Copper (Cu)	7440-31-5 7440-22-4 7440-50-8	95.50% 4.00% 0.50%	SAC405
BSC Coating Film	5.013%	0.2945	3.26% 0.98% 0.38% 0.38% 0.03%	0.1914 0.0574 0.0221 0.0221 0.0015	Polybutylene terephthalate (PBT) Silica Epoxy Resin Bisphenol A diglycidyl ether Carbon black	25038-59-9 60676-86-0 - 1675-54-3 1333-86-4	65.00% 19.50% 7.50% 7.50% 0.50%	Adwill LC 2850
	100.00%	5.874	100.00%	5.874				

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



Rev. A1