



Device Material Content

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Package: 81 WLCSP
Total Device Weight 17.910 Milligrams

Package Code:

UUG81

Products:

XO4

Assembly: ASEK

Size (mm): 3.8 x 3.7

Lead pitch (mm): 0.4

MSL: 1

Reflow max (°C): 260

	% of Total Pkg. Wt.	Weight (mg)	% of Total Pkg. Wt.	Weight (mg)	Substance	CAS #	% of Subst.	Notes / Assumptions:
Die	57.21%	10.246	57.21%	10.246	Silicon chip	7440-21-3	100.00%	Die size: 3.8 x 3.7 mm
Polyimide (Repassivation)	1.85%	0.3312	0.925% 0.647% 0.092% 0.092% 0.092%	0.1656 0.1159 0.0166 0.0166 0.0166	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%	0.0072	0.040%	0.0072	Titanium (Ti)	7440-32-6	100.00%	
RDL(2) metalization	3.30%	0.5910	3.300%	0.5910	Copper (Cu)	7440-50-8	100.00%	
UBM (1)	0.04%	0.0072	0.040%	0.0072	Titanium (Ti)	7440-32-6	100.00%	
UBM (2)	6.69%	1.1982	6.690%	1.1982	Copper (Cu)	7440-50-8	100.00%	
Solder Balls	27.22%	4.8748	25.993% 1.089% 0.136%	4.6554 0.1950 0.0244	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)	3.65%	0.6537	2.372% 0.712% 0.274% 0.274% 0.018%	0.4249 0.1275 0.0490 0.0490 0.0033	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

100.00%

17.909

100.00%

17.909

800.00%

Notes:

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