



Device Material Content

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Package: 49 WLCSP
Total Device Weight 12.14 Milligrams

Package Code:

UUG49

Products:

XO4

Assembly: ASEK

Size (mm): 3.106 x 3.185

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	59.45%	7.2173	59.45%	7.2173	Silicon chip	7440-21-3	100.00%	
Polyimide (Repassivation)	1.93%	0.2342	0.965% 0.675% 0.096% 0.096% 0.096%	0.1171 0.0820 0.0117 0.0117 0.0117	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%	0.0049	0.040%	0.0049	Titanium (Ti)	7440-32-6	100.00%	
RDL(2) metalization	3.45%	0.4188	3.450%	0.4188	Copper (Cu)	7440-50-8	100.00%	
UBM (1)	0.04%	0.0049	0.040%	0.0049	Titanium (Ti)	7440-32-6	100.00%	
UBM (2)	6.98%	0.8473	6.980%	0.8473	Copper (Cu)	7440-50-8	100.00%	
Solder Balls	24.30%	2.9498	23.205% 0.972% 0.121%	2.8170 0.1180 0.0147	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)	3.81%	0.4625	2.476% 0.743% 0.286% 0.286% 0.019%	0.3006 0.0902 0.0347 0.0347 0.0023	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%	Lintec Adwill LC 2850
	100.00%	12.140	100.000%	12.140				

Notes:

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Rev.A