



Device Material Content

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Package: 69 WLCSP
Total Device Weight 39.75 Milligrams

Package Code:

UTG69

Products:

XO4D

Assembly: ASEKH
Size (mm): 5.158 x 6.16

Lead pitch (mm): 0.65

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	65.18%	25.9111	65.18%	25.9111	Silicon chip	7440-21-3	100.00%	Die size: 5.158 x 6.16 mm
Polyimide (Repassivation)	1.94%	0.7712	0.679% 0.951% 0.097% 0.019% 0.097% 0.097%	0.2699 0.3779 0.0386 0.0077 0.0386 0.0386	Polyamide 4-Butyrolactone 1-Methoxy-2-propyl acetate Organosilan Compound (s) Photo Active Compound Proprietary Additives	- 96-48-0 108-65-6 - - -	35.00% 49.00% 5.00% 1.00% 5.00% 5.00%	PBO HD8820
RDL(1) metalization	0.42%	0.1688	0.425%	0.1688	Titanium (Ti)	7440-32-6	100.00%	
RDL(2) metalization	3.47%	1.3781	3.467%	1.3781	Copper (Cu)	7440-50-8	100.00%	
UBM (1)	0.04%	0.0169	0.043%	0.0169	Titanium (Ti)	7440-32-6	100.00%	
UBM (2)	7.02%	2.7889	7.016%	2.7889	Copper (Cu)	7440-50-8	100.00%	
Solder Balls	18.10%	7.1940	17.283% 0.724% 0.090%	6.8703 0.2878 0.0360	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)	3.83%	1.5231	2.490% 0.747% 0.287% 0.287% 0.019%	0.9900 0.2970 0.1142 0.1142 0.0076	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%	39.752	100.00%	39.752			800.00%	

Notes:

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Rev.A