

Device Material Content

5555 NE Moore Ct.

Hillsboro OR 97124 Package: 16 WLCSP with SnAgCu Solder Balls

 custreq@latticesemi.com
 Total Device Weight
 2.368
 mg
 MSL: 1

 Peak Reflow Temp: 260°C

							Peak Renow Temp: 200°C
November, 2013	% of Total Pkg. Wt.	Weight (mg)	% of Total Pkg. Wt.	Weight (mg)	Substance	CAS#	Notes / Assumptions:
Die	53.74%	1.2729			Silicon chip	7440-21-3	Die size: 1367.4 x 1452.8 x275μm
Polymide (RDL) Repassivation	1.72%	0.0408	0.60% 0.86% 0.07% 0.05% 0.07%	0.01429 0.02041 0.00163 0.00122 0.00163	Polyamide Gamma-butyrolactone Propylene Glycol Monomethyl Ether Acetate Organosilan Compound(s) Photoinitiator Proprietary Ingredient(s)	trade secret 96-48-0 108-65-6 trade secret trade secret trade secret	HD-8820 30-40% 40-60% 1-10% 1-5% 1-10%
RDL metalization	15.58%	0.3689	0.19% 0.73% 14.66%	0.00438 0.01736 0.34718	RDL-Ti RDL-Cu RDL-Cu	7440-32-6 7440-50-8 7440-50-8	
UBM metalization	4.40%	0.1043	0.03% 0.11% 4.27%	0.00064 0.00253 0.10116	UBM-Ti UBM-Cu UBM-Cu	7440-32-6 7440-50-8 7440-50-8	
Solder ball	21.07%	0.4991	20.12% 0.84% 0.11%	0.47661 0.01996 0.00250	Tin (Sn) Silver (Ag) Copper (Cu)	7440-31-5 7440-22-4 7440-50-8	SAC405 Sn95.5/Ag4.0/Cu0.5
BSL	3.48%	0.0824	0.14% 3.34%	0.00330 0.07914	Bisphenol A diglycidyl ether Silica, Epoxy resin, Acrylic polymer	1675-54-3 trade secret	ADWILL LC2850 3~ 5%

Notes:

The values listed above are nominal values based on studies of representatives of this particular package type, and are believed to be as accurate as possible.

Constituent substances and proportions in epoxy materials are before curing.

The information provided above is representative of the package as of the date listed, and is subject to change at any time.

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Rev. A