

Product / Package Information

Package	WLCSP
Body Size	
I/O Count	12
Terminal Finish	SnAgCu
MS Number	MS011155A

Environmental Information

RoHS Compliant	Yes
High Temperature Compliant	Yes
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

Materials Declaration

Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	2.62E-03	100.00	1000000	68.52	685172

Backside Coating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	Proprietary	1.75 E-05	42.68	426800	0.46	4575
Thermoplastic	Epoxy Resin	Proprietary	1.15 E-05	28.05	280500	0.30	3007
Thermoplastic	Acrylic polymer	Proprietary	1.15 E-05	28.05	280500	0.30	3007
Other organic materials	Carbon black	Proprietary	5.00 E-07	1.22	12200	0.01	131
Subtotal			4.10 E-05	100.00	1000000	1.07	10720

Wafer Bumps

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	5.21E-04	95.50	955000	13.62	136238
Tin & its alloys	Silver	7440-22-4	2.18E-05	4.00	40000	0.57	5706
Tin & its alloys	Copper	7440-50-8	2.73E-06	0.50	5000	0.071	713
Subtotal			5.45 E-04	100.00	1000000	14.27	142657

UBM

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	1.17 E-05	65.23	652287	0.31	3055
Nickel & its alloys	Nickel	7440-02-0	4.58 E-06	25.59	255892	0.120	1199
Nickel & its alloys	Vanadium	7440-62-2	1.42 E-07	0.79	7914	0.0037	37
Other non-ferrous metals and alloys	Titanium	7440-32-6	1.50 E-06	8.39	83907	0.039	393
Subtotal			1.79 E-05	100.00	1000000	0.47	4684

Polyimide

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	4.07 E-04	67.95	679500	10.65	106523
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	8.72 E-05	14.56	145600	2.283	22825
Other organic materials	Trifluoroacetic Anhydride	407-25-0	3.49 E-05	5.83	58300	0.914	9139
Other organic materials	4,4'-Oxydiphthalic Anhydride	1823-59-2	3.49 E-05	5.83	58300	0.914	9139
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	3.49 E-05	5.83	58300	0.914	9139
Subtotal			5.99 E-04	100.0	1000000	15.68	156767

Package Totals	Weight (g)	3.82 E-03	Percentage (%)	100	PPM	1000000
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Note: The information provided in this declaration are true to the best of ADI's knowledge. ADI derived most of the information listed in this declaration from documents provided by third parties, and assumes no liability to any inaccuracy of such information.



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