



Product / Package Information

Package:	WLCSP
Body Size (mm):	
I/O Count:	20
Terminal Finish	SnAgCu

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	3.30 E-03	100.00	1000000	55.49	554883

Wafer Bumps

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	2.02 E-03	96.80	968000	33.95	339543
Tin & its alloys	Silver	7440-22-4	5.43 E-05	2.60	26000	0.91	9120
Tin & its alloys	Copper	7440-50-8	1.25 E-05	0.60	6000	0.21	2105
Subtotal			2.09E-03	100.00	1000000	35.08	350768

UBM / Redistribution Layers

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	4.13 E-05	42.05	420474	0.69	6937
Aluminum & its alloys	Aluminum	7429-90-5	2.96 E-05	30.13	301297	0.50	4971
Nickel & its alloys	Nickel	7440-02-0	1.62 E-05	16.50	164952	0.27	2721
Nickel & its alloys	Vanadium	7440-62-2	5.01 E-07	0.51	5102	0.01	84
Other inorganic materials	Titanium	7440-32-6	1.06E-05	10.82	108176	0.18	1785
Subtotal			9.82 E-05	100.00	1000000	1.65	16499

Polyimide

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Thermoset	Photosensitive Polyimide Resin	Proprietary		30-60			
Other organic materials	Acrylate Ester	Proprietary		5-10			
Others	Proprietary Ingredient(s)	Proprietary		1-10			
Subtotal			8.00 E-05	100	1000000	1.34	13444

Backside Coating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Polyethylene terephthalate	25038-59-9		50-80			
Other inorganic materials	Silica	Proprietary		20-30			
Thermoplastic	Epoxy Resin	Proprietary		1-10			
Thermoplastic	Acrylic polymer	Proprietary		1-10			
Other organic materials	Carbon black	Proprietary		0.1-5			
Subtotal			3.833 E-04	100.00	1000000	6.44	64406

Package Totals			Weight (g) 5.95 E-03			Percentage (%) 100.00	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.

ADI Proprietary

