Product / Package Information

Package:	WLCSP
Body Size (mm):	
I/O Count:	16
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	2.62 E-03	100.00	1000000	44.68	446764

Backside Coating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Polyethylene terephthalate	25038-59-9		60-80			
Other inorganic materials	Silica	Proprietary		10-25			
Thermoplastic	Epoxy Resin	Proprietary		3-10			
Thermoplastic	Acrylic polymer	Proprietary		3-10			
Other organic materials	Carbon black	Proprietary		<1			
Subtotal			9.70 E-05	100.00	1000000	1.66	16556

Wafer Bumps

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	9.25 E-04	95.50	955000	15.79	157926
Tin & its alloys	Silver	7440-22-4	3.88 E-05	4.00	40000	0.66	6615
Tin & its alloys	Copper	7440-50-8	4.85 E-06	0.50	5000	0.08	827
Subtotal			9.69E-04	100.00	1000000	16.54	165368

UBM / Redistribution Layers

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	2.77 E-05	65.33	653270	0.47	4726
Nickel & its alloys	Nickel	7440-02-0	1.19 E-05	27.96	279564	0.20	2022
Nickel & its alloys	Vanadium	7440-62-2	1.10E-06	2.60	25970	0.02	188
Other inorganic materials	Titanium	7440-32-6	1.75E-06	4.12	41196	0.03	298
Subtotal			4.24 E-05	100.00	1000000	0.72	7234

Polyimide

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Photosensitive PolyimideResin	Proprietary	1.71E-03	80.00	800000	29.13	291262
Other organic materials	Acrylate Ester	Proprietary	2.84E-04	13.33	133333	4.85	48544
Others	Proprietary Ingredients	Proprietary	1.42E-04	6.67	66667	2.43	24272
Subtotal			2.13E-03	100	1000000	36.41	364077

	Weight (g)	Percentage (%)	PPM
Package Totals	**5.86 E-03**	**100**	**1000000**

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 tc
any inaccuracy of such information.

ADI Proprietary

ANALOG DEVICES