

Product / Package Information

Package	WLCSP
Body Size	
I/O Count	4
Terminal Finish	SnAgCu
MS Number	MS011073B

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	5.25E-04	100.00	1000000	65.64	656444

Backside Coating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	Proprietary	9.39 E-06	42.68	426800	1.17	11726
Thermoplastic	Epoxy Resin	Proprietary	6.17 E-06	28.05	280500	0.77	7707
Thermoplastic	Acrylic polymer	Proprietary	6.17 E-06	28.05	280500	0.77	7707
Other organic materials	Carbon black	Proprietary	2.68 E-07	1.22	12200	0.03	335
Subtotal			2.20 E-05	100.00	1000000	2.75	27475

Wafer Bumps

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	2.31E-04	95.50	955000	28.90	289029
Tin & its alloys	Silver	7440-22-4	9.45E-06	3.90	39000	1.18	11803
Tin & its alloys	Copper	7440-50-8	1.45E-06	0.60	6000	0.182	1816
Subtotal			2.42 E-04	100.00	1000000	30.26	302648

UBM

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	1.63 E-07	4.23	42348	0.02	204
Nickel & its alloys	Nickel	7440-02-0	2.35 E-06	61.12	611158	0.294	2939
Precious metals	Gold	7440-57-5	1.27 E-06	33.10	331033	0.1592	1592
Other inorganic materials	Titanium	7440-32-6	5.95 E-08	1.55	15461	0.007	74
Subtotal			3.85 E-06	100.00	1000000	0.48	4808

Polyimide

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	4.69 E-06	67.95	679500	0.59	5861
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	1.01 E-06	14.56	145600	0.126	1256
Other organic materials	Trifluoroacetic Anhydride	407-25-0	4.02 E-07	5.83	58300	0.050	503
Other organic materials	4,4'-Oxydipthalic Anhydride	1823-59-2	4.02 E-07	5.83	58300	0.050	503
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	4.02 E-07	5.83	58300	0.050	503
Subtotal			6.90E-06	100.0	1000000	0.86	8625

Package Totals			Weight (g) 8.00 E-04			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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