

Product / Package Information	
Package	WLCSP
Body Size	
I/O Count	11
Terminal Finish	SnAgCu
MS Number	MS011072B

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	2.42 E-03	100.00	1000000	64.80	647977

Wafer Bumps

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	1.10E-03	95.50	955000	29.53	295251
Tin & its alloys	Silver	7440-22-4	4.51E-05	3.90	39000	1.21	12057
Tin & its alloys	Copper	7440-50-8	6.94E-06	0.60	6000	0.185	1855
Subtotal			1.16E-03	100.00	1000000	30.92	309163

UBM

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Nickel & its alloys	Nickel	7440-02-0	9.90 E-06	60.74	607362	0.26	2647
Precious Metals	Gold	7440-57-5	5.40 E-06	33.13	331288	0.14	1444
Copper & its alloys	Copper	7440-50-8	7.00 E-07	4.29	42945	0.02	187
Other non-ferrous metals and alloys	Titanium	7440-32-6	3.00 E-07	1.84	18405	0.01	80
Subtotal			1.63 E-05	93.87	938650	0.41	4358

Polyimide

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	2.19 E-05	67.95	679500	0.59	5850
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	4.89 E-06	14.56	145600	0.125	1254
Other organic materials	Trifluoroacetic Anhydride	407-25-0	1.88 E-06	5.83	58300	0.050	502
Other organic materials	4,4'-Oxydiphthalic Anhydride	1823-59-2	1.88 E-06	5.83	58300	0.050	502
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	1.88 E-06	5.83	58300	0.050	502
Subtotal			3.22E-05	100.0	1000000	0.86	8609

Backside Coating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	Proprietary	4.77 E-05	42.68	426800	1.28	12758
Thermoplastic	Epoxy Resin	Proprietary	3.14 E-05	28.05	280500	0.84	8385
Thermoplastic	Acrylic polymer	Proprietary	3.14 E-05	28.05	280500	0.84	8385
Other organic materials	Carbon black	Proprietary	1.36 E-06	1.22	12200	0.04	365
Subtotal			1.12 E-04	100.0	1000000	2.99	29892

Package Totals	Weight (g)	Percentage (%)	PPM
	3.74 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 to any inaccuracy of such information.



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