

Product / Package Information	
Package	WLCSP
Body Size	
I/O Count	16
Terminal Finish	SnAgCu
MS Number	MS011055B

Environmental Information	
RoHS Compliant	Yes
High Temperature Compliant	N/A
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	3.72E-04	100.00	1000000	6.91	69053

Wafer Bumps

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	2.21E-03	95.50	955000	40.99	409877
Tin & its alloys	Silver	7440-22-4	9.26E-05	4.00	40000	1.72	17168
Tin & its alloys	Copper	7440-50-8	1.16E-05	0.50	5000	0.215	2146
Subtotal			2.31 E-03	100.00	1000000	42.92	429191

UBM

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	1.52 E-04	89.95	899492	2.82	28249
Nickel & its alloys	Nickel	7440-02-0	1.37 E-05	8.10	81038	0.255	2545
Nickel & its alloys	Vanadium	7440-62-2	1.28 E-06	0.75	7528	0.024	236
Other inorganic materials	Titanium	7440-32-6	2.02 E-06	1.19	11942	0.038	375
Subtotal			1.69 E-04	100.00	1000000	3.14	31406

Polyimide

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	1.70 E-03	67.95	679500	31.44	314396
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	3.63 E-04	14.56	145600	6.737	67367
Other organic materials	Trifluoroacetic Anhydride	407-25-0	1.45 E-04	5.83	58300	2.697	26975
Other organic materials	4,4'-Oxydiphthalic Anhydride	1823-59-2	1.45 E-04	5.83	58300	2.697	26975
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	1.45 E-04	5.83	58300	2.697	26975
Subtotal			2.50 E-03	100.0	1000000	46.27	462687

Backside Coating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	Proprietary	1.76 E-05	42.68	426800	0.33	3271
Thermoplastic	Epoxy Resin	Proprietary	1.16 E-05	28.05	280500	0.21	2150
Thermoplastic	Acrylic polymer	Proprietary	1.16 E-05	28.05	280500	0.21	2150
Other organic materials	Carbon black	Proprietary	5.04 E-07	1.22	12200	0.01	93
Subtotal			4.13 E-05	100.0	1000000	0.77	7664

Package Totals	Weight (g)	Percentage (%)	PPM
	5.39 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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