

**Product / Package Information**

Package	WLCSP
Body Size	
I/O Count	12
Terminal Finish	SnAgCu
MS Number	MS011068B

**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	2.24 E-03	100.00	1000000	60.81	608139

**Wafer Bumps**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	1.20E-03	95.50	955000	32.56	325555
Tin & its alloys	Silver	7440-22-4	4.90E-05	3.90	39000	1.33	13295
Tin & its alloys	Copper	7440-50-8	7.53E-06	0.60	6000	0.205	2045
Subtotal			1.26E-03	100.00	1000000	34.09	340895

**UBM**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	2.74 E-05	60.41	604091	0.74	7428
Nickel & its alloys	Nickel	7440-02-0	1.05 E-05	23.17	231674	0.285	2849
Precious metals	Gold	7440-57-5	5.68 E-06	12.55	125486	0.154	1543
Other non-ferrous metals and alloys	Tungsten	7440-33-7	1.34 E-06	2.96	29596	0.036	364
Other non-ferrous metals and alloys	Titanium	7440-32-6	4.15 E-07	0.92	9155	0.011	113
Subtotal			4.53 E-05	100.00	1000000	1.23	12297

**Polyimide**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	2.45 E-05	67.95	679500	0.67	6652
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	5.25 E-06	14.56	145600	0.143	1425
Other organic materials	Trifluoroacetic Anhydride	407-25-0	2.10 E-06	5.83	58300	0.057	571
Other organic materials	4,4'-Oxydiphthalic Anhydride	1823-59-2	2.10 E-06	5.83	58300	0.057	571
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	2.10 E-06	5.83	58300	0.057	571
Subtotal			3.61 E-05	100.0	1000000	0.98	9789

**Backside Coating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	Proprietary	4.54 E-05	42.68	426800	1.23	12326
Thermoplastic	Epoxy Resin	Proprietary	2.98 E-05	28.05	280500	0.81	8101
Thermoplastic	Acrylic polymer	Proprietary	2.98 E-05	28.05	280500	0.81	8101
Other organic materials	Carbon black	Proprietary	1.30 E-06	1.22	12200	0.04	352
Subtotal			1.06 E-04	100.0	1000000	2.89	28880

Package Totals	Weight (g)	Percentage (%)	PPM
	3.68 E-03	100.00	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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