

**Product / Package Information**

Package	WLCSP
Body Size	
I/O Count	12
Terminal Finish	SnAgCu
MS Number	MS011107A

**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	2.45 E-03	100.00	1000000	64.23	642304

**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	31.36	313639
Tin & its alloys	Silver	7440-22-4	5.01E-05	4.00	40000	1.31	13137
Tin & its alloys	Copper	7440-50-8	6.26E-06	0.50	5000	0.164	1642
Subtotal			1.25 E-03	100.00	1000000	32.84	328418

**UBM / RDL**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	2.64 E-05	42.05	420474	0.69	6932
Aluminum & its alloys	Aluminum	7429-90-5	1.89 E-05	30.13	301297	0.50	4967
Nickel & its alloys	Nickel	7440-02-0	1.04 E-05	16.50	164952	0.27	2719
Nickel & its alloys	Vanadium	7440-62-2	3.21 E-07	0.51	5102	0.01	84
Other non-ferrous metals and alloys	Titanium	7440-32-6	6.80 E-06	10.82	108176	0.18	1783
Subtotal			6.29 E-05	100.00	1000000	1.65	16485

**Polyimide**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	3.31 E-05	67.95	679500	0.87	8693
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	7.10 E-06	14.56	145600	0.186	1863
Other organic materials	Trifluoroacetic Anhydride	407-25-0	2.84 E-06	5.83	58300	0.075	746
Other organic materials	4,4'-Oxydiphthalic Anhydride	1823-59-2	2.84 E-06	5.83	58300	0.075	746
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	2.84 E-06	5.83	58300	0.075	746
Subtotal			4.88 E-05	100.00	1000000	1.28	12793

<b>Package Totals</b>	<b>Weight (g)</b>	<b>3.81 E-03</b>	<b>Percentage (%)</b>	<b>100.00</b>	<b>PPM</b>	<b>1000000</b>
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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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