

**Product / Package Information**

Package	WLCSP
Body Size	
I/O Count	20
Terminal Finish	SnAgCu
MS Number	MS011181A

**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	4.16 E-03	100.00	1000000	62.69	626879

**Wafer Bumps**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	2.00E-03	95.50	955000	30.14	301401
Tin & its alloys	Silver	7440-22-4	8.16E-05	3.90	39000	1.23	12309
Tin & its alloys	Copper	7440-50-8	1.26E-05	0.60	6000	0.19	1894
Subtotal			2.09E-03	100.00	1000000	31.56	315603

**UBM**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	6.34 E-05	67.24	672400	0.96	9558
Nickel & its alloys	Nickel	7440-02-0	1.75 E-05	18.55	185500	0.26	2637
Precious metals	Gold	7440-57-5	9.47 E-06	10.05	100500	0.14	1429
Other non-ferrous metals and alloys	Tungsten	7440-33-7	3.13 E-06	3.32	33200	0.05	472
Other non-ferrous metals and alloys	Titanium	7440-32-6	7.92 E-07	0.84	8400	0.012	119
Subtotal			9.43 E-05	100.00	1000000	1.42	14215

**Polyimide**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	4.98 E-05	67.95	679500	0.75	7510
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	1.07 E-05	14.56	145600	0.161	1609
Other organic materials	Trifluoroacetic Anhydride	407-25-0	4.27 E-06	5.83	58300	0.064	644
Other organic materials	4,4'-Oxydiphthalic Anhydride	1823-59-2	4.27 E-06	5.83	58300	0.064	644
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	4.27 E-06	5.83	58300	0.064	644
Subtotal			7.33 E-05	100.0	1000000	1.11	11052

**Backside Coating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	Proprietary	9.13 E-05	42.68	426800	1.38	13764
Thermoplastic	Epoxy Resin	Proprietary	6.00 E-05	28.05	280500	0.90	9046
Thermoplastic	Acrylic polymer	Proprietary	6.00 E-05	28.05	280500	0.90	9046
Other organic materials	Carbon black	Proprietary	2.61 E-06	1.22	12200	0.04	393
Subtotal			2.14 E-04	100.0	1000000	3.23	32250

Package Totals	Weight (g)	Percentage (%)	PPM
	6.63 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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