

Product / Package Information	
Package	WLCSP
Body Size	
I/O Count	20
Terminal Finish	SnAgCu
MS Number	MS012307A

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	63.54	635355

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	28.69	286930
Tin & its alloys	Silver	7440-22-4	4.63E-05	4.00	40000	1.20	12018
Tin & its alloys	Copper	7440-50-8	5.78E-06	0.50	5000	0.150	1502
Subtotal			1.16E-03	100.00	1000000	30.05	300450

UBM

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	7.67 E-05	99.50	994969	1.99	19929
Other inorganic materials	Titanium	7440-32-6	3.88E-07	0.50	5031	0.010	101
Subtotal			7.71 E-05	100.00	1000000	2.00	20030

Polyimide

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	1.19 E-05	67.95	679500	0.31	3100
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	2.56 E-06	14.56	145600	0.066	664
Other organic materials	Trifluoroacetic Anhydride	407-25-0	1.02 E-06	5.83	58300	0.027	266
Other organic materials	4,4'-Oxydiphthalic Anhydride	1823-59-2	1.02 E-06	5.83	58300	0.027	266
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	1.02 E-06	5.83	58300	0.027	266
Subtotal			1.76E-05	100.0	1000000	0.46	4562

Backside Coating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	Proprietary	6.51 E-05	42.68	426800	1.69	16902
Thermoplastic	Epoxy Resin	Proprietary	4.28 E-05	28.05	280500	1.11	11109
Thermoplastic	Acrylic polymer	Proprietary	4.28 E-05	28.05	280500	1.11	11109
Other organic materials	Carbon black	Proprietary	1.86 E-06	1.22	12200	0.05	483
Subtotal			1.52 E-04	100.0	1000000	3.96	39603

Package Totals	Weight (g)	Percentage (%)	PPM
	3.85 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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