

Product / Package Information

Package	WLCSP
Body Size	
I/O Count	12
Terminal Finish	SnAgCu
MS Number	MS011050B

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	2.88 E-03	100.00	1000000	65.45	654494

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	27.22	272237
Tin & its alloys	Silver	7440-22-4	5.02E-05	4.00	40000	1.14	11403
Tin & its alloys	Copper	7440-50-8	6.28E-06	0.50	5000	0.143	1425
Subtotal			1.26E-03	100.00	1000000	28.51	285065

UBM

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	1.19 E-04	98.92	989201	2.71	27121
Other inorganic materials	Titanium	7440-32-6	1.30 E-06	1.08	10799	0.030	296
Subtotal			1.21 E-04	100.00	1000000	2.74	27417

Polyimide

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	4.03 E-06	67.95	679500	0.09	915
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	8.63 E-07	14.56	145600	0.020	196
Other organic materials	Trifluoroacetic Anhydride	407-25-0	3.46 E-07	5.83	58300	0.008	78
Other organic materials	4,4'-Oxydiphthalic Anhydride	1823-59-2	3.46 E-07	5.83	58300	0.008	78
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	3.46 E-07	5.83	58300	0.008	78
Subtotal			5.93E-06	100.0	1000000	0.13	1346

Backside Coating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	Proprietary	5.95 E-05	42.68	426800	1.35	13520
Thermoplastic	Epoxy Resin	Proprietary	3.91 E-05	28.05	280500	0.89	8886
Thermoplastic	Acrylic polymer	Proprietary	3.91 E-05	28.05	280500	0.89	8886
Other organic materials	Carbon black	Proprietary	1.70 E-06	1.22	12200	0.04	386
Subtotal			1.40 E-04	100.0	1000000	3.17	31677

Package Totals	Weight (g)	Percentage (%)	PPM
	4.40 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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