



Product / Package Information	
Package	CSP BGA
Body Size (mm)	6 X 6
Ball Count	76
Terminal Finish	SnAgCu
Ball Size (mm)	0.30

Environmental Information	
RoHS Compliant	Yes
High Temperature Compliant	Yes
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

Materials Declaration

Molding Compound

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	60676-86-0	2.67 E-02	86.20	862000	38.07	380697
Thermosets	Epoxy resin	Proprietary	1.86 E-03	6.00	60000	2.65	26499
Thermosets	Phenol Resin	Proprietary	1.86 E-03	6.00	60000	2.65	26499
Other inorganic materials	Metal Hydroxide	Proprietary	4.65 E-04	1.50	15000	0.66	6625
Other inorganic materials	Carbon Black	1333-86-4	9.31 E-05	0.30	3000	0.13	1325
Subtotal	Subtotal		3.10 E-02	100.0	1000000	44.16	441644

Laminate

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Composite	Glass Cloth	65997-17-3	4.03 E-03	17.92	179200	5.73	57287
Other inorganic materials	Inorganic Filler	Proprietary	1.25 E-03	5.57	55700	1.78	17806
Thermoset	Epoxy	7328-97-4	6.63 E-04	2.95	29500	0.94	9431
Thermoset	Flame Resistant Epoxy Resin	Proprietary	5.88 E-04	2.62	26200	0.84	8376
Thermoset	Heat Resistant Resin	Proprietary	5.88 E-04	2.62	26200	0.84	8376
	Laminate Core Subtotal		7.12 E-03	31.68	316800	10.13	101275
Organic materials	Resin	Proprietary	2.47 E-03	11.01	110120	3.52	35203
Other inorganic materials	Talc	14807-96-6	3.69 E-04	1.65	16450	0.53	5259
Other inorganic materials	Silica	7631-86-9	3.69 E-04	1.65	16450	0.53	5259
Other inorganic materials	Barium Sulfate	7727-43-7	3.69 E-04	1.65	16450	0.53	5259
Organic materials	Organic filler	Proprietary	3.69 E-04	1.64	16430	0.53	5252
Others	Additives	Proprietary	5.17 E-05	0.23	2300	0.07	735
Organic materials	Organic pigment	Proprietary	6.74 E-06	0.03	300	0.01	96
Organic materials	Phthalocyanine blue	Proprietary	6.74 E-06	0.03	300	0.01	96
	Soldermask Subtotal		4.02 E-03	17.88	178800	5.72	57159
Copper & its alloys	Copper	7440-50-8	1.03 E-02	45.90	459000	14.67	146734
Nickel & its alloys	Nickel	7440-02-0	9.12 E-04	4.06	40600	1.30	12979
Precious metals	Gold	7440-57-5	1.08 E-04	0.48	4800	0.15	1534
Subtotal			2.25 E-02	100.00	1000000	31.97	319682

Solder Ball

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	7.33 E-03	96.50	965000	10.43	104260
Tin & its alloys	Silver	7440-22-4	2.28 E-04	3.00	30000	0.32	3241
Tin & its alloys	Copper	7440-50-8	3.80 E-05	0.50	5000	0.05	540
Subtotal			7.59 E-03	100	1000000	10.80	108041

Bond Wires

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	4.91 E-04	99	990000	0.70	6987
Precious metals	Palladium	7440-05-3	4.96 E-06	1	10000	0.01	71
Subtotal			4.96 E-04	100	1000000	0.71	7058

Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	8.08 E-03	100	1000000	11.49	114942

Die Attach

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silicon dioxide	60676-86-0	2.93 E-04	48.30	483000	0.42	4170
Other organic materials	Bismaleimide monomer	TS #10049	1.90 E-04	31.25	312500	0.27	2698
Other organic materials	Acrylate monomer	TS #10050	5.17 E-05	8.52	85200	0.07	736
Thermoset	Epoxy resin	TS #10042	5.17 E-05	8.52	85200	0.07	736
Other organic materials	Acrylic resin	TS #10051	2.07 E-05	3.41	34100	0.03	294
Subtotal			6.07 E-04	100.00	1000000	0.86	8633

Package Totals	Weight (g)	Percentage (%)	PPM
	7.03 E-02	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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