

Product / Package Information

Package	CBGA
Body Size	7 X 7 mm
Lead Count	32
Terminal Finish	90Pb/10Sn
MS Number	MS012862A

Environmental Information

RoHS Compliant	Yes - with exemption
High Temperature Compliant	Yes
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

Materials Declaration

Ceramic Base

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics	Alumina	1344-28-1	2.87 E-01	91.32	913200	66.56	665556
Ceramics	Chromium oxide	1308-38-9	1.21 E-02	3.85	38500	2.81	28059
Ceramics	Silicon dioxide	7631-86-9	1.12 E-02	3.58	35800	2.61	26092
Ceramics	Titanium dioxide	13463-67-7	3.11 E-03	0.99	9900	0.72	7215
Ceramics	Molybdenum	7439-98-7	8.17 E-04	0.26	2600	0.19	1895
Subtotal			3.14 E-01	100	1000000	72.88	728817

Pads

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Tungsten	7440-33-7	1.97 E-02	83.55	835500	4.57	45697
Nickel & its alloys	Nickel	7440-02-0	2.52 E-03	10.71	107100	0.59	5858
Precious metals	Gold	7440-57-5	1.35 E-03	5.74	57400	0.31	3139
Subtotal			2.36 E-02	100.00	1000000	5.47	54695

Metal Lid

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Iron	7439-89-6	2.84 E-02	58.0	579900	6.60	65988
Nickel & its alloys	Nickel	7440-02-0	2.06 E-02	42.0	420100	4.78	47804
Subtotal			4.90 E-02	100.0	1000000	11.38	113791

Lid Shield Attach Material

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Lead	7439-92-1	3.84 E-03	91.1	911400	0.89	8916
Tin & its alloys	Tin	7440-31-5	2.67 E-04	6.3	63300	0.06	619
Tin & its alloys	Silver	7440-22-4	5.35 E-05	1.3	12700	0.01	124
Tin & its alloys	Indium	7440-74-6	5.31 E-05	1.3	12600	0.01	123
Subtotal			4.22 E-03	100.0	1000000	0.98	9783

Bond Wires

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Aluminum & its alloys	Aluminum	7429-90-5	5.75 E-05	100.0	1000000	0.01	133
Subtotal			5.75 E-05	100.0	1000000	0.01	133

Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	1.82 E-02	100.0	1000000	4.22	42244

Die Attach

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Polymer	Polymer	Proprietary	1.72 E-04	100	1000000	0.04	400

Solder Ball

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Lead	7439-92-1	1.94 E-02	90.0	900000	4.51	45123
Tin & its alloys	Tin	7440-31-5	2.16 E-03	10.0	100000	0.50	5014
			2.16 E-02	100.0	1000000	5.01	50137

Package Totals			Weight (g) 4.31 E-01			Percentage (%) 100.00	PPM 1000000
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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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