

Product / Package Information

Package	Sidebrazed
Body Size (mm)	
Lead Count	40
Terminal Finish	Au

Environmental Information

RoHS Compliant	Yes
High Temperature Compliant	N/A
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

Materials Declaration

Combo Lid

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other Ferrous alloys	Kovar		3.05E-01	92.0	920000	4.64	46377
Nickel & its alloys	Nickel	7440-02-0	1.33E-02	4.00	40000	0.20	2016
Precious metals	Gold	7440-57-5	1.33E-02	4.00	40000	0.20	2016
Subtotal			3.32E-01	100.00	1000000	5.04	50410

Lid Frame

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	1.91 E-02	79.58	795800	0.29	2900
Tin & its alloys	Tin	7440-31-5	4.90 E-03	20.42	204200	0.07	744
Subtotal			2.40E-02	100.00	1000000	0.36	3644

Ceramic Package

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics							
Ceramics	Aluminum oxide	1344-28-1	5.26 E+00	90.50	905000	79.89	798917
Ceramics	Chromium oxide	1308-38-9	2.27 E-01	3.90	39000	3.44	34428
Ceramics	Silicon Dioxide	14808-60-7	2.03 E-01	3.50	35000	3.09	30897
Ceramics	Titanium dioxide	13463-67-7	5.81 E-02	1.00	10000	0.88	8828
Ceramics	Calcium oxide	1305-78-8	3.49 E-02	0.60	6000	0.53	5297
Ceramics	Magnesium oxide	1309-48-4	2.91 E-02	0.50	5000	0.44	4414
Subtotal			5.81 E+00	100.00	1000000	88.28	882782
Metallization							
Other inorganic materials	Tungsten	7440-33-7	4.83 E-02	96.61	966100	0.73	7334
Other inorganic materials	Molybdenum	7439-98-7	1.70 E-03	3.39	33900	0.03	257
Subtotal			5.00 E-02	100.0	1000000	0.76	7592
Leads							
Iron & its alloys	Iron	7439-89-6	1.51 E-01	58.0	580000	2.29	22897
Iron & its alloys	Nickel	7440-02-0	1.06 E-01	40.7	407000	1.61	16067
Iron & its alloys	Manganese	7439-96-5	2.08 E-03	0.8	8000	0.03	316
Iron & its alloys	Cobalt	7440-48-4	1.30 E-03	0.5	5000	0.02	197
Subtotal			2.60 E-01	100.0	1000000	3.95	39478
Ag-Cu Base Metal							
Precious metals	Silver	7440-22-4	8.50 E-03	85.0	850000	0.13	1291
Copper & its alloys	Copper	7440-50-8	1.50 E-03	15.0	150000	0.02	228
Subtotal			1.00 E-02	100.0	1000000	0.15	1518
Nickel Plating (1st coating)							
Nickel & its alloys	Nickel	7440-02-0	9.39 E-03	93.89	938900	0.14	1426
Nickel & its alloys	Palladium	7440-05-3	5.36 E-04	5.36	53600	0.01	81
Nickel & its alloys	Boron	7440-42-8	7.00 E-05	0.70	7000	0.0011	11
Nickel & its alloys	Lead	7439-92-1	5.00 E-06	0.05	500	0.0001	1
Subtotal			1.00 E-02	100.0	1000000	0.15	1518
Nickel Plating (2nd coating)							
Nickel & its alloys	Nickel	7440-02-0	9.20 E-03	92.00	920000	0.14	1397
Other inorganic materials	Cobalt	7440-48-4	8.00 E-04	8.00	80000	0.01	121
Subtotal			1.00 E-02	100.00	1000000	0.15	1518
Subtotal			6.15 E+00			93.44	934406

External Leadframe Plating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	1.00 E-02	100.00	1000000	0.15	1518

Bond Wires

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Aluminum	7429-90-5	8.00 E-03	100.0	1000000	0.12	1215

Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	5.00 E-02	100.0	1000000	0.76	7592

Die Attach

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Silver	7440-22-4	6.40 E-03	80.00	800000	0.10	972
Polymer	Cyanate ester resin	Proprietary	1.60 E-03	20.00	200000	0.02	243
Subtotal			8.00 E-03	100.0	1000000	0.12	1215

Package Totals			Weight (g) 6.59 E+00			Percentage (%) 100.00	PPM 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.



ADI Proprietary