

Product / Package Information

Package	Sidebrazed
Body Size (mm)	
Lead Count	18
Terminal Finish	Au

Environmental Information

RoHS Compliant	Yes
High Temperature Compliant	Yes
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		2.71E-01	92.0	920000	17.60	175994
Nickel & its alloys	Nickel	7440-02-0	1.18E-02	4.00	40000	0.77	7652
Precious metals	Gold	7440-57-5	1.18E-02	4.00	40000	0.77	7652
Subtotal			2.95E-01	100.00	1000000	19.13	191298

Lid Frame

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	2.23 E-02	79.58	795800	1.44	14449
Tin & its alloys	Tin	7440-31-5	5.72 E-03	20.42	204200	0.37	3708
Subtotal			2.80E-02	100.00	1000000	1.82	18157

Ceramic Package

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics							
Ceramics	Aluminum oxide	1344-28-1	7.78 E-01	90.50	905000	50.47	504701
Ceramics	Chromium oxide	1308-38-9	3.35 E-02	3.90	39000	2.17	21750
Ceramics	Silicon Dioxide	14808-60-7	3.01 E-02	3.50	35000	1.95	19519
Ceramics	Titanium dioxide	13463-67-7	8.60 E-03	1.00	10000	0.56	5577
Ceramics	Calcium oxide	1305-78-8	5.16 E-03	0.60	6000	0.33	3346
Ceramics	Magnesium oxide	1309-48-4	4.30 E-03	0.50	5000	0.28	2788
Subtotal			8.60 E-01	100.00	1000000	55.77	557681
Metallization							
Other inorganic materials	Tungsten	7440-33-7	4.83 E-02	96.61	966100	3.13	31324
Other inorganic materials	Molybdenum	7439-98-7	1.70 E-03	3.39	33900	0.11	1099
Subtotal			5.00 E-02	100.0	1000000	3.24	32423
Leads							
Iron & its alloys	Iron	7439-89-6	1.51 E-01	58.0	580000	9.78	97789
Iron & its alloys	Nickel	7440-02-0	1.06 E-01	40.7	407000	6.86	68621
Iron & its alloys	Manganese	7439-96-5	2.08 E-03	0.8	8000	0.13	1349
Iron & its alloys	Cobalt	7440-48-4	1.30 E-03	0.5	5000	0.08	843
Subtotal			2.60 E-01	100.0	1000000	16.86	168601
Ag-Cu Base Metal							
Precious metals	Silver	7440-22-4	8.50 E-03	85.0	850000	0.55	5512
Copper & its alloys	Copper	7440-50-8	1.50 E-03	15.0	150000	0.10	973
Subtotal			1.00 E-02	100.0	1000000	0.65	6485
Nickel Plating (1st coating)							
Nickel & its alloys	Nickel	7440-02-0	5.36 E-04	93.9	93600	0.03	348
Nickel & its alloys	Palladium	7440-05-3	9.39 E-03	5.4	938900	0.61	6088
Nickel & its alloys	Boron	7440-42-8	7.00 E-05	0.7	7000	0.0045	45
Nickel & its alloys	Lead	7439-92-1	5.00 E-06	0.1	500	0.0003	3
Subtotal			1.00 E-02	100.0	1000000	0.65	6485
Nickel Plating (2nd coating)							
Nickel & its alloys	Nickel	7440-02-0	9.20 E-03	92.00	920000	0.60	5966
Other inorganic materials	Cobalt	7440-48-4	8.00 E-04	8.00	80000	0.05	519
Subtotal			1.00 E-02	100.00	1000000	0.65	6485
Subtotal			1.20 E+00			77.82	778160

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	0.65	6485

Bond Wires

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Aluminum	7429-90-5	1.20 E-03	100.0	1000000	0.08	778

Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	6.70 E-03	100.0	1000000	0.43	4345

Die Attach

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Silver	7440-22-4	9.60 E-04	80.00	800000	0.06	623
Polymer	Cyanate ester resin	Proprietary	2.40 E-04	20.00	200000	0.02	156
Subtotal			1.20 E-03	100.0	1000000	0.08	778

Package Totals			Weight (g)			Percentage (%)	PPM
			1.54 E+00			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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