

Product / Package Information

Package	Sidebraze
Body Size (mm)	
Lead Count	48
Terminal Finish	63Sn37Pb

Environmental Information

RoHS Compliant	No
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		2.67E-01	92.0	920000	3.03	30270
Nickel & its alloys	Nickel	7440-02-0	1.16E-02	4.00	40000	0.13	1316
Precious metals	Gold	7440-57-5	1.16E-02	4.00	40000	0.13	1316
Subtotal			2.90E-01	100.00	1000000	3.29	32902

Lid Frame							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	3.18 E-02	79.58	795800	0.38	3812
Tin & its alloys	Tin	7440-51-5	8.17 E-03	20.42	204200	0.09	927
Subtotal			4.00E-02	100.00	1000000	0.45	4538

Ceramic Package							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics							
Ceramics	Aluminum oxide	1344-26-1	7.21 E+00	90.50	905000	81.83	818340
Ceramics	Chromium oxide	1308-38-9	3.11 E-01	3.90	39000	3.53	35265
Ceramics	Silicon Dioxide	14808-60-7	2.79 E-01	3.50	35000	3.16	31649
Ceramics	Titanium dioxide	13463-67-7	7.97 E-02	1.00	10000	0.90	9042
Ceramics	Calcium oxide	1305-78-8	4.78 E-02	0.60	6000	0.54	5425
Ceramics	Magnesium oxide	1309-48-4	3.99 E-02	0.50	5000	0.45	4521
Subtotal			7.97 E+00	100.00	1000000	90.42	904243
Metalization							
Other inorganic materials	Tungsten	7440-33-7	4.83 E-02	96.61	966100	0.55	5480
Other inorganic materials	Molybdenum	7439-98-7	1.70 E-03	3.39	33900	0.02	192
Subtotal			5.00 E-02	100.0	1000000	0.57	5673
Leads							
Iron & its alloys	Iron	7439-89-6	1.51 E-01	58.0	580000	1.71	17109
Iron & its alloys	Nickel	7440-02-0	1.06 E-01	40.7	407000	1.20	12006
Iron & its alloys	Manganese	7439-96-5	2.08 E-03	0.8	8000	0.02	236
Iron & its alloys	Cobalt	7440-48-4	1.30 E-03	0.5	5000	0.01	147
Subtotal			2.60 E-01	100.0	1000000	2.95	29499
Ag-Cu Base Metal							
Precious metals	Silver	7440-22-4	8.50 E-03	85.0	850000	0.10	964
Copper & its alloys	Copper	7440-50-8	1.50 E-03	15.0	150000	0.02	170
Subtotal			1.00 E-02	100.0	1000000	0.11	1135
Nickel Plating (1st coating)							
Nickel & its alloys	Nickel	7440-02-0	5.36 E-04	93.9	93600	0.01	61
Nickel & its alloys	Palladium	7440-05-3	9.39 E-03	5.4	93900	0.11	1065
Nickel & its alloys	Boron	7440-42-8	7.00 E-05	0.7	7000	0.0008	8
Nickel & its alloys	Lead	7439-92-1	5.00 E-06	0.1	500	0.0001	1
Subtotal			1.00 E-02	100.0	1000000	0.11	1135
Nickel Plating (2nd coating)							
Nickel & its alloys	Nickel	7440-02-0	9.20 E-03	92.00	920000	0.10	1044
Other inorganic materials	Cobalt	7440-48-4	8.00 E-04	8.00	8000	0.01	91
Subtotal			1.00 E-02	100.00	1000000	0.11	1135
Au Plating							
Precious metals	Gold	7440-57-5	1.00 E-02	100.00	1000000	0.11	1135
Subtotal			8.32 E+00			94.40	943953

External Leadframe Plating							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7439-92-1	1.89 E-02	63.00	630000	0.21	2144
Tin & its alloys	Lead	7440-31-5	1.11 E-02	37.00	370000	0.13	1259
Subtotal			3.00 E-02	100.00	1000000	0.34	3404

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	0.09	908

Chip							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	6.30 E-02	100.0	1000000	0.71	7148

Die Attach							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Silver	7440-22-4	5.04 E-02	80.00	800000	0.57	5718
Polymer	Cyanate ester resin	Proprietary	1.26 E-02	20.00	200000	0.14	1430
Subtotal			6.30 E-02	100.0	1000000	0.71	7148

Package Totals	Weight (g)	8.81 E+00	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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