



Materials Declaration

Package	Sidebraze
Body Size	300 mils
Lead Count	16
Option	Au

Combolid

Item	% of Combolid	Weight (g)	PPM
Kovar	92	1.93E-01	125699
Nickel	4	8.40E-03	5465
Gold	4	8.40E-03	5465
Subtotal		2.10E-01	136630

Lid Frame

Item	% of Lid Frame	Weight (g)	PPM
Gold	79.58	9.55 E-03	6213
Sn	20.42	2.45 E-03	1594
Subtotal		1.20 E-02	7807

Ceramic Package

Item	% of Ceramic	Weight (g)	PPM
Ceramic			
Al2O3	90.5	7.34 E-01	477524
Cr2O3	3.9	3.16 E-02	20578
SiO2	3.5	2.84 E-02	18468
TiO2	1.0	8.11 E-03	5277
CaO	0.6	4.87 E-03	3166
MgO	0.5	4.06 E-03	2638
Subtotal		8.11 E-01	527651

Metallization			
Tungsten	96.61	4.44 E-02	28914
Molybdenum	3.39	1.56 E-03	1015
Subtotal		4.60 E-02	29928

Lead			
Iron	58	1.48 E-01	96226
Nickel	40.7	1.04 E-01	67524
Manganese	0.8	2.04 E-03	1327
Cobalt	0.5	1.28 E-03	830
Subtotal		2.55 E-01	165908

Ag-Au (base metal)			
Silver	85	1.02 E-02	6636
Copper	15	1.80 E-03	1171
Subtotal		1.20 E-02	7807

Nickel Plating (1st coating)			
Nickel	93.89	9.39 E-03	6109
Palladium	5.36	5.36 E-04	349
Boron	0.7	7.00 E-05	46
Lead	0.05	5.00 E-06	3
Subtotal		1.00 E-02	6506

Nickel Plating (2nd layer)			
Nickel	92	9.20 E-03	5986
Cobalt	8	8.00 E-04	520
Subtotal		1.00 E-02	6506

External Leadframe Plating

Item	% of External Plating	Weight (g)	PPM
Gold	100	1.00 E-02	6506

Bond Wires

Item	% of Wire	Weight (g)	PPM
Aluminum	100	7.40 E-02	48146

Chip 1

Item	% of Chip	Weight (g)	PPM
Si	100	1.30 E-02	8458

Die Attach Paste

Item	% of Die Attach Paste	Weight (g)	PPM
Silver Filler	80	5.92 E-02	38517
Cyanate ester resin	20	1.48 E-02	9629
Subtotal		7.40 E-02	48146

Package Totals

Weight (g)	PPM
1.54E+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.



ADI Proprietary





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Package	Sidebrazed
Body Size	300 mils
Lead Count	16
Option	SnPb

Combold

Item	% of Combold	Weight (g)	PPM
Kovar	92	1.78E-01	101696
Nickel	4	7.76E-03	4422
Gold	4	7.76E-03	4422
Subtotal		1.94E-01	110539

Lid Frame

Item	% of Lid Frame	Weight (g)	PPM
Gold	79.58	9.55 E-03	5441
Sn	20.42	2.45 E-03	1396
Subtotal		1.20 E-02	6837

Ceramic Package

Item	% of Ceramic	Weight (g)	PPM
Al2O3	77.0	8.84 E-01	503672
Iron	6.3	7.24 E-02	41275
Nickel	4.9	5.58 E-02	31790
Cr2O3	3.3	3.80 E-02	21651
SiO2	3.0	3.47 E-02	19754
Tungsten	2.5	2.87 E-02	16353
TiO2	0.9	9.87 E-03	5625
CaO	0.5	5.97 E-03	3401
Ag	0.5	5.40 E-03	3074
MgO	0.4	4.94 E-03	2813
Gold	0.2	1.84 E-03	1047
Cu	0.01	1.15 E-04	65
Co	0.02	2.30 E-04	131
Mo	0.01	1.15 E-04	65
Subtotal		1.14 E+00	650718

Bond Wires

Item	% of Wire	Weight (g)	PPM
Aluminum	100	7.00 E-03	3989

Chip

Item	% of Chip	Weight (g)	PPM
Si	100	1.30 E-02	7407

External Leadframe Plating

Item	% of Plating	Weight (g)	PPM
Tin	63	2.36 E-01	134254
Lead	37	1.38 E-01	78848
Subtotal		3.74 E-01	213102

Die Attach Paste

Item	% of Die Attach Paste	Weight (g)	PPM
Silver Filler	80	1.04 E-02	5926
Cyanate ester resin	20	2.60 E-03	1481
Subtotal		1.30 E-02	7407

Package Totals

Weight (g)	PPM
1.76E+00	1000000

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