

Product / Package Information

Package	CerDIP
Body Size	300 mils
Lead Count	24
Terminal Finish	63Sn37Pb

Environmental Compliance Information

RoHS Compliant	No
High Temperature Compliant	N/A
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

Materials Declaration

Base

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics							
Ceramics	Aluminum oxide	1344-28-1	1.33E+00	70.25	702500	34.75	347500
Ceramics	Manganese dioxide	1313-13-9	5.05E-02	2.66	26600	1.32	13158
Ceramics	Silicon Dioxide	14808-60-7	4.37E-02	2.30	23000	1.14	11377
Ceramics	Titanium Dioxide	13463-67-7	2.85E-02	1.50	15000	0.74	7420
Ceramics	Chromium oxide	1308-38-9	2.09E-02	1.10	11000	0.54	5441
Ceramics	Iron Oxide		1.71E-02	0.90	9000	0.45	4452
Ceramics	Magnesium oxide	1309-48-4	7.60E-03	0.40	4000	0.20	1979
Ceramics	Cobalt oxide	1308-06-1	3.80E-03	0.20	2000	0.10	989
Ceramics	Calcium oxide	1305-78-8	5.70E-04	0.03	300	0.01	148
	Subtotal		1.51E+00	79.34	793400	39.25	392464
Sealing Glass							
Glass	Lead Oxide	1309-60-0	2.38E-01	12.55	125480	6.21	62070
Glass	Tin Oxide	18282-10-5	6.27E-02	3.30	33000	1.63	16324
Glass	Silicon Dioxide	14808-60-7	2.85E-02	1.50	15000	0.74	7420
Glass	Boron Trioxide	1303-86-2	2.28E-02	1.20	12000	0.59	5936
Glass	Aluminum Oxide	1344-28-1	1.52E-02	0.80	8000	0.40	3957
Glass	Titanium Dioxide	13463-67-7	9.50E-03	0.50	5000	0.25	2473
Glass	Magnesium Oxide	1309-48-4	9.50E-03	0.50	5000	0.25	2473
Glass	Zinc Oxide	1314-13-2	3.80E-03	0.20	2000	0.10	989
Glass	Calcium Oxide	1305-78-8	9.50E-04	0.05	500	0.02	247
Glass	Iron Oxide		5.70E-04	0.03	300	0.01	148
Glass	Chromium Oxide	1308-38-9	3.80E-04	0.02	200	0.01	99
Glass	Manganese Dioxide	1313-13-9	1.90E-04	0.01	100	0.005	49
Glass	Sodium Oxide	1313-59-3	3.80E-05	0.002	20	0.001	10
	Subtotal		3.93 E-01	20.66	206600	10.22	102197
Subtotal			1.90E+00	100.00	1000000	49	494662

Caps

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics							
Ceramics	Aluminum oxide	1344-28-1	8.95 E-01	63.90	639000	23.29	232907
Ceramics	Manganese dioxide	1313-13-9	3.36 E-02	2.40	24000	0.87	8748
Ceramics	Silicon Dioxide	14808-60-7	2.94 E-02	2.10	21000	0.77	7654
Ceramics	Titanium Dioxide	1317-70-0	1.82 E-02	1.30	13000	0.47	4738
Ceramics	Chromium oxide	1308-38-9	1.40 E-02	1.00	10000	0.36	3645
Ceramics	Iron Oxide		1.12 E-02	0.80	8000	0.29	2916
Ceramics	Magnesium oxide	1309-48-4	5.60 E-03	0.40	4000	0.15	1458
Ceramics	Cobalt oxide	1308-06-1	2.80 E-03	0.20	2000	0.07	729
Ceramics	Calcium oxide	1305-78-8	4.20 E-04	0.03	300	0.01	109
	Subtotal		1.01 E+00	72.13	721300	26.29	262905
Sealing Glass							
Glass	Lead Oxide	1309-60-0	2.38 E-01	17.00	170000	6.20	61963
Glass	Tin Oxide		6.30 E-02	4.50	44970	1.64	16391
Glass	Silicon Dioxide	14808-60-7	2.84 E-02	2.03	20300	0.74	7399
Glass	Boron Trioxide	1303-86-2	2.24 E-02	1.60	16000	0.58	5832
Glass	Aluminum Oxide	1344-28-1	1.54 E-02	1.10	11000	0.40	4009
Glass	Magnesium Oxide	1309-48-4	8.40 E-03	0.60	6000	0.22	2187
Glass	Titanium Dioxide	1317-70-0	9.80 E-03	0.70	7000	0.26	2551
Glass	Calcium Oxide	1305-78-8	8.40 E-04	0.06	600	0.02	219
Glass	Zinc Oxide	1314-13-2	2.80 E-03	0.20	2000	0.07	729
Glass	Chromium Oxide	1308-38-9	4.20 E-04	0.03	300	0.01	109
Glass	Iron Oxide		5.60 E-04	0.04	400	0.01	146
Glass	Manganese dioxide	1313-13-9	1.40 E-04	0.01	100	0.00	36
Glass	Sodium Oxide		4.20 E-05	0.003	30	0.00	11
	Subtotal		3.90 E-01	27.87	278700	10.16	101583
Subtotal			1.40 E+00	100.00	1000000	36.45	364487

Leadframe

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Iron & its alloys	Iron	7439-89-6	2.34 E-01	58.45	584500	6.09	60869
Iron & its alloys	Nickel	7440-02-0	1.63 E-01	40.84	408400	4.25	42530
Iron & its alloys	Manganese	7439-96-5	2.08 E-03	0.52	5190	0.05	540
Iron & its alloys	Silicon	7440-21-3	5.20 E-04	0.13	1300	0.01	135
Iron & its alloys	Cobalt	7440-48-4	1.20 E-04	0.03	300	0.003	31
Iron & its alloys	Aluminum	7429-90-5	4.00 E-05	0.01	100	0.001	10
Iron & its alloys	Chromium	7440-47-3	4.00 E-05	0.01	100	0.001	10
Iron & its alloys	Sulfur	7704-34-9	2.40 E-05	0.01	60	0.001	6
Iron & its alloys	Carbon	7440-44-0	1.20 E-05	0.003	30	0.0003	3
Iron & its alloys	Phosphorus	7723-14-0	8.00 E-06	0.002	20	0.0002	2
Subtotal			4.00 E-01	100.0	1000000	10.41	104139

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	63.0	630000	0.49	4922
Tin & its alloys	Lead	7440-31-5	1.11 E-02	37.0	370000	0.29	2891
Subtotal			3.00 E-02	100.0	1000000	0.78	7813

Bond Wires

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Aluminum	7429-90-5	1.00 E-01	100.0	1000000	2.60	26035

Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	7.00 E-03	100.0	1000000	0.18	1822

Die Attach

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silver	7440-22-4	3.20 E-03	80.00	800000	0.08	833
Glass	Glass frit (containing lead)	65997-18-4	8.00 E-04	20.00	200000	0.02	208
Subtotal			4.00 E-03	100.0	1000000	0.10	1041

			Weight (g)			Percentage (%)	PPM
Package Totals			3.84 E+00			100.000	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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