

Product / Package Information

Package	SIP - AD204JY
Body Size (mm)	
Lead Count	10
Terminal Finish	
MS Number	

Environmental Information

RoHS Compliant
High Temperature Compliant
Halogen Free Compliant
REACH SVHC Compliant

Materials Declaration

Laminate

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		PPM
				Percentage (%)	PPM	Percentage (%)	PPM	
Glass Fiber	Silicon Dioxide	14808-60-7	1.04E-01	81.40	814000	1.10		11070
Copper & its alloys	Copper	7440-50-8	1.10E-02	8.61	86050	0.12		1164
Other organic materials	DGEBA (Difunction-epoxy)	1675-54-3	4.36E-03	3.40	34000	0.05		460
Other organic materials	Tetrafunction-epoxy	79-94-7	4.23E-03	3.30	33000	0.04		446
Tin & its alloys	Tin	7440-31-5	3.34E-03	2.60	26000	0.04		352
Other organic materials	DICY	461-58-5	8.98E-04	0.70	7000	0.01		95
Subtotal			1.28E-01	100.01	1000050	1.35		13526

Molding Compound

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		PPM
				Percentage (%)	PPM	Percentage (%)	PPM	
Other organic materials	Epoxy Resin	25068-38-6	9.21 E-02	64.50	645000	0.97		9708
Other inorganic materials	Inorganic Filler	Proprietary	2.53 E-02	17.70	177000	0.27		2664
Other organic materials	Hardener	Proprietary	2.28 E-02	16.00	160000	0.24		2408
Other organic materials	Thixotropic Agent	Proprietary	1.78 E-03	1.25	12500	0.02		188
Other organic materials	Black Pigment	Proprietary	7.85 E-04	0.55	5500	0.01		83
Subtotal			1.43 E-01	100.00	1000000	1.51		15051

Solder

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		PPM
				Percentage (%)	PPM	Percentage (%)	PPM	
Tin & its alloys	Tin	7440-31-5	2.21 E-01	65.0	650000	2.33		23289
Tin & its alloys	Lead	7439-92-1	1.19 E-01	35.0	350000	1.25		12540
Subtotal			3.40 E-01	100.0	1000000	3.58		35829

Encapsulant

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		PPM
				Percentage (%)	PPM	Percentage (%)	PPM	
Other organic materials	Dimethyl Siloxane, dimethylvinyl-terminated	68083-19-2	1.24 E-01	60.00	600000	1.31		13094
Other inorganic materials	Quartz	14808-60-7	7.45 E-02	36.00	360000	0.79		7856
Other inorganic materials	Zinc Oxide	1324-13-2	6.21 E-03	3.00	30000	0.07		655
Other inorganic materials	Carbon Black	1333-86-4	2.07 E-03	1.00	10000	0.02		218
Subtotal			2.07 E-01	100.00	1000000	2.18		21823

Die Attach 1

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		PPM
				Percentage (%)	PPM	Percentage (%)	PPM	
Other organic materials	Bisphenol A Type Epoxy resin	25068-38-6	1.35E-01	70.00	700000	1.43		14280
Other inorganic materials	Aluminum Hydroxide	21645-51-2	3.19E-02	16.50	165000	0.337		3366
Other organic materials	Flame retardant	84852-53-9	1.55E-02	8.00	80000	0.163		1632
Other organic materials	Pigment	1333-86-4	1.06E-02	5.50	55000	0.1122		1122
Subtotal			1.94 E-01	100.0	1000000	2.04		20400

Die Attach 2

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		PPM
				Percentage (%)	PPM	Percentage (%)	PPM	
Other organic materials	4-(4-aminophenyl)methyl)aniline	Proprietary	1.29 E-01	66.50	665000	1.36		13566
Other organic materials	Benzyl Alcohol	Proprietary	5.42 E-02	28.00	280000	0.57		5712
Other organic materials	Salicylic Acid	Proprietary	1.06 E-02	5.50	55000	0.11		1122
Subtotal			1.94 E-01	100.0	1000000	2.04		20400

Capacitor 1

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		PPM
				Percentage (%)	PPM	Percentage (%)	PPM	
Other inorganic materials	Barium Titanate	12047-27-7	5.77 E-02	76.07	760700	0.609		6085
Copper & its alloys	Copper	7440-50-8	8.51 E-03	11.22	112200	0.090		898
Nickel & its alloys	Nickel	7440-02-0	6.45 E-03	8.50	85000	0.068		680
Tin & its alloys	Tin	7440-31-5	1.71 E-03	2.25	22500	0.018		180
Others	Miscellaneous	Proprietary	1.49 E-03	1.96	19600	0.016		157
Subtotal			7.59 E-02	100.00	1000000	0.800		8000

Capacitor 2

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		PPM
				Percentage (%)	PPM	Percentage (%)	PPM	
Other non-ferrous metals and alloys	Tantalum	7440-25-7	8.99 E-03	15.34	153400	0.095		948
Other inorganic materials	Oxygen	7782-44-7	1.17 E-02	19.88	198800	0.123		1229
Copper & its alloys	Copper	7440-50-8	7.97 E-03	13.60	136000	0.084		841
Other inorganic materials	Silicon	7440-21-3	6.80 E-03	11.60	116000	0.072		717
Precious metals	Silver	7440-22-4	6.30 E-03	10.74	107400	0.066		664
Other non-ferrous metals and alloys	Manganese	7439-96-5	4.90 E-03	8.36	83600	0.052		517
Other inorganic materials	Carbon	7440-44-0	5.39 E-03	9.20	92000	0.057		569
Nickel & its alloys	Nickel	7440-02-0	2.21 E-03	3.77	37700	0.023		233
Zinc & its alloys	Zinc	7440-66-6	2.08 E-03	3.55	35500	0.022		219
Tin & its alloys	Tin	7440-31-5	1.23 E-03	2.09	20900	0.013		129
Others	Miscellaneous	Proprietary	8.15 E-04	1.39	13900	0.009		86
Iron & its alloys	Iron	7439-89-6	1.76 E-04	0.30	3000	0.002		19
Other inorganic materials	Flourine	7782-41-4	1.06 E-04	0.18	1800	0.001		11
Subtotal			5.86 E-02	100.00	1000000	0.62		6181

IC 1							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	7.51 E-05	0.06	600	0.0008	8
Other inorganic materials	Silicon	7440-21-3	1.41 E-03	1.13	11300	0.0149	149
Copper & its alloys	Copper	7440-50-8	4.76 E-02	37.98	379800	0.5013	5013
Copper & its alloys	Iron	7439-89-6	1.16 E-03	0.93	9300	0.0123	123
Copper & its alloys	Zinc	7440-66-6	1.25 E-05	0.01	100	0.0001	1
Copper & its alloys	Phosphorous	7723-14-0	1.25 E-05	0.01	100	0.0001	1
Other organic materials	Resin	Proprietary	1.63 E-04	0.13	1300	0.0017	17
Precious metals	Silver	7440-22-4	6.33 E-04	0.51	5100	0.0067	67
Nickel & its alloys	Nickel	7440-02-0	1.88 E-04	0.15	1500	0.0020	20
Others	Miscellaneous	Proprietary	3.48 E-03	2.78	27800	0.0367	367
Other inorganic materials	Silica	60676-86-0	5.84 E-02	46.68	466800	0.6161	6161
Other organic materials	1,4-bis(methoxymethyl)benzene/phenol copolymer	26834-02-6	2.95 E-03	2.36	23600	0.0312	312
Other inorganic materials	Magnesium Hydroxide (Mg(OH)2)	1309-42-8	4.44 E-03	3.55	35500	0.0469	469
Other organic materials	Tetramethylbiphenyl diglycidyl ether	85954-11-6	1.48 E-03	1.18	11800	0.0156	156
Other inorganic materials	Carbon black	1333-86-4	1.50 E-04	0.12	1200	0.0016	16
Others	Miscellaneous	Proprietary	3.03 E-03	2.42	24200	0.0319	319
Subtotal			1.25 E-01	100.00	1000000	1.32	13199

IC 2							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	60676-86-0	3.89 E-02	31.85	318500	0.410	4097
Other organic materials	Resin	Proprietary	4.56 E-03	3.74	37400	0.048	481
Copper & its alloys	Copper	7440-50-8	6.69 E-02	54.82	548200	0.705	7051
Copper & its alloys	Iron	7439-89-6	1.81 E-03	1.48	14800	0.019	190
Copper & its alloys	Silver	7440-22-4	7.69 E-04	0.63	6300	0.008	81
Copper & its alloys	Zinc	7440-66-6	1.34 E-04	0.11	1100	0.001	14
Precious Metals	Silver	7440-22-4	3.33 E-03	2.73	27300	0.035	351
Other organic materials	Epoxy	129915-35-1	1.11 E-03	0.91	9100	0.012	117
Tin & its alloys	Tin	7440-31-5	3.27 E-03	2.68	26800	0.034	345
Other inorganic materials	Silicon	7440-21-3	9.76 E-04	0.80	8000	0.010	103
Copper & its alloys	Copper	7440-50-8	3.05 E-04	0.25	2500	0.003	32
Subtotal			1.22 E-01	100.00	1000000	1.29	12862

Diode							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other Organic Materials	Ortho Cresol Novolac Resin	29690-82-2	1.51 E-03	6.03	60300	0.0159	159
Other Organic Materials	Phenolic Resin	9003-35-4	1.51 E-03	6.03	60300	0.0159	159
Other Inorganic Materials	Silica	60676-86-0	9.79 E-03	39.17	391700	0.1032	1032
Other Inorganic Materials	Aluminum hydroxide	21645-51-2	2.18 E-03	8.74	87400	0.0230	230
Other Inorganic Materials	Carbon black	1333-86-4	7.50 E-05	0.30	3000	0.0008	8
Copper and Its Alloys	Copper	7440-50-8	7.72 E-04	3.09	30900	0.0081	81
Copper and Its Alloys	Iron	7439-89-6	3.83 E-03	15.34	153400	0.0404	404
Copper and Its Alloys	Nickel	7440-02-0	2.77 E-03	11.10	111000	0.0292	292
Copper and Its Alloys	Silver	7440-22-4	1.60 E-03	6.39	63900	0.0168	168
Tin & its alloys	Tin	7440-31-5	4.30 E-04	1.72	17200	0.0045	45
Other Inorganic Materials	Silicon	7440-21-3	4.92 E-04	1.97	19700	0.0052	52
Copper and Its Alloys	Copper	7440-50-8	3.00 E-05	0.12	1200	0.0003	3
Subtotal			2.50 E-02	100.00	1000000	0.26	2635

Resistor							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics	Aluminum Oxide	1344-28-1	4.86 E-02	36.31	363128	0.5122	5122
Ceramics	Silicone Dioxide	7631-86-9	5.67 E-03	4.24	42397	0.0598	598
Ceramics	Silicate	Proprietary	2.52 E-03	1.88	18829	0.0266	266
Ceramics	Miscellaneous	Proprietary	3.48 E-04	0.26	2604	0.0037	37
Other organic materials	GF-Fibre	1333-86-4	4.76 E-03	3.56	35558	0.0502	502
Other organic materials	Polyacrylate	Proprietary	9.31 E-03	6.96	69559	0.0981	981
Other organic materials	Pigment portion	Proprietary	7.04 E-06	0.01	53	0.0001	1
Nickel & its alloys	Nickel	7440-02-0	2.80 E-05	0.02	209	0.0003	3
Other Nonferrous Metals and Alloys	Chromium	7440-22-4	4.20 E-05	0.03	314	0.0004	4
Ferrous Alloys	Iron	7439-89-6	5.63 E-02	42.05	420525	0.5931	5931
Ferrous Alloys	Copper	7440-50-8	6.26 E-04	0.47	4678	0.0066	66
Ferrous Alloys	Tin	7440-31-5	3.15 E-03	2.35	23529	0.0332	332
Ferrous Alloys	Nickel	7440-02-0	2.17 E-03	1.62	16232	0.0229	229
Ferrous Alloys	Phosphorous	7723-14-0	1.25 E-04	0.09	936	0.0013	13
Ferrous Alloys	Miscellaneous	Proprietary	1.94 E-04	0.15	1450	0.0020	20
Subtotal			1.34 E-01	100.00	1000000	1.41	14104

Housing							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic material	Polymer	Proprietary	3.40 E+00	100.00	1000000	35.84	358446

Bobbin							
Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics	Manganese-Zinc Ferrite Core	12645-49-7	4.34 E+00	100.00	1000000	45.75	457545

Package Totals	Weight (g)	Percentage (%)	PPM
	9.49 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.



ADI Proprietary

