

**Product / Package Information**

Package	LGA
Body Size (mm)	5 X 5
I/O Count	13
Terminal Finish	Gold
MS Number	MS011871A

**Environmental Information**

RoHS Compliant	Yes
High Temperature Compliant	Yes
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

**Materials Declaration**

**Molding Compound**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	60676-86-0	2.71E-02	86.20	862000	57.95	579511
Thermosets	Epoxy resin	Proprietary	1.89E-03	6.00	60000	4.03	40337
Thermosets	Phenol Resin	Proprietary	1.89E-03	6.00	60000	4.03	40337
Other inorganic materials	Metal Hydroxide	Proprietary	4.72E-04	1.50	15000	1.01	10084
Other inorganic materials	Carbon Black	1333-86-4	9.44E-05	0.30	3000	0.20	2017
Subtotal			3.15 E-02	100.00	1000000	67.23	672287

**Laminate**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Glass	Continuous filament Fiber Glass	65997-17-3	2.50 E-03	22.23	222300	5.34	53401
Copper & its alloys	Copper Foil	7440-50-8	1.67 E-03	14.87	148700	3.57	35721
Thermoset	Bismaleimide/Triazine	13676-54-5	1.00 E-03	8.89	88900	2.14	21356
Thermoset	Epoxy Resin	Proprietary	5.01 E-04	4.45	44500	1.07	10690
Other inorganic materials	Inorganic Filler	Proprietary	1.00 E-03	8.89	88900	2.14	21356
	Laminate Core Subtotal		5.67 E-03	59.33	593300	14.25	142523
Thermoset	Modified Resin	85954-11-6	5.46 E-04	4.85	48500	1.17	11651
Other inorganic materials	Barium sulfate	7727-43-7	5.57 E-04	4.95	49500	1.19	11891
Other organic materials	Aromatic Hydrocarbon	Proprietary	3.07 E-04	2.73	27300	0.66	6558
Thermoset	Epoxy Resin	85954-11-6	2.87 E-04	2.55	25500	0.61	6126
Other organic materials	Diethylene Glycol Monomethyl Ether Acetate	112-15-2	1.97 E-04	1.75	17500	0.42	4204
Other organic materials	Acrylic Ester Monomer	Proprietary	8.44 E-05	0.75	7500	0.18	1802
Other organic materials	Aromatic Carbonyl Compound	Proprietary	5.40 E-05	0.48	4800	0.115	1153
Other organic materials	Dipropylene Glycol Methyl Ether	34590-94-8	5.17 E-05	0.46	4600	0.111	1105
Others	Leveling Agents	Proprietary	3.49 E-05	0.31	3100	0.074	745
Other organic materials	Organic Filler	Proprietary	2.81 E-05	0.25	2500	0.060	601
Other organic materials	Amine Compound	Proprietary	9.00 E-06	0.08	800	0.019	192
Other organic materials	Phthalocyanine Green	Proprietary	4.50 E-06	0.04	400	0.010	96
	Soldermask Subtotal		2.16 E-03	19.2	192000	4.61	46122
Copper & its alloys	Copper	7440-50-8	2.09 E-03	18.58	185800	4.46	44633
Nickel & its alloys	Nickel	7440-02-0	2.90 E-04	2.58	25800	0.62	6198
Precious metals	Gold	7440-57-5	3.49 E-05	0.31	3100	0.07	745
Subtotal			1.12 E-02	100.00	1000000	24.02	240221

**Bond Wires**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	1.86 E-04	99.0	990000	0.40	3974
Precious metals	Palladium	7440-05-3	1.88 E-06	1.0	10000	0.00	40
Subtotal			1.88 E-04	100.0	1000000	0.40	4014

**Chip**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	3.65 E-03	100.0	1000000	7.79	77946

**Die Attach**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silicon dioxide	60676-86-0	1.25 E-04	48.30	483000	0.27	2672
Other organic materials	Bismaleimide monomer	TS #10049	8.09 E-05	31.25	312500	0.17	1729
Other organic materials	Acrylate monomer	TS #10050	2.21 E-05	8.52	85200	0.05	471
Thermoset	Epoxy resin	TS #10042	2.21 E-05	8.52	85200	0.05	471
Other organic materials	Acrylic resin	TS #10051	8.83 E-06	3.41	34100	0.02	189
Subtotal			2.59 E-04	100.0	1000000	0.55	5532

<b>Package Totals</b>	<b>Weight (g)</b>	<b>Percentage (%)</b>	<b>PPM</b>
	4.68 E-02	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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