

Product / Package Information

Package	LFCSP_SS
Body Size (mm)	4 X 4 X 1.45 (2.5 X 2.1 EP)
Lead Count	12
Terminal Finish	100 Sn
MS Number	MS011319B

Environmental Information

RoHS Compliant	Yes with exemption
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	2.82E-02	93.70	937000	48.14	481406
Thermosets	Epoxy resin	Proprietary	9.02E-04	3.00	30000	1.54	15413
Thermosets	Phenol resin	Proprietary	9.02E-04	3.00	30000	1.54	15413
Other inorganic materials	Carbon black	1333-86-4	9.02E-05	0.30	3000	0.15	1541
Subtotal			3.07E-02	100.00	1000000	51.38	513774

Leadframe

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	1.61 E-02	96.20	962000	27.60	276009
Copper & its alloys	Nickel	7440-02-0	5.03 E-04	3.00	30000	0.86	8607
Copper & its alloys	Silicon	7440-21-3	1.09 E-04	0.65	6500	0.19	1865
Copper & its alloys	Magnesium	7439-95-4	2.52 E-05	0.15	1500	0.04	430
Subtotal			1.68 E-02	100.00	1000000	28.69	286911

Internal Leadframe Plating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	1.80 E-04	100.0	1000000	0.31	3084

External Leadframe Plating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	2.33 E-04	100.0	1000000	0.40	3991

Bond Wires

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	1.84 E-04	99.0	990000	0.31	3143
Precious metals	Palladium	7440-05-3	1.86 E-06	1.00	10000	0.003	32
Subtotal			1.86 E-04	100.0	1000000	0.32	3175

Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	6.99 E-03	100.0	1000000	11.95	119518

Die Attach 1

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	7.96 E-04	50.00	500000	1.36	13606
Other organic materials	Ethene, tetrafluoro-, homopolymer	9002-84-0	7.16 E-04	45.00	450000	1.22	12246
Other organic materials	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	2530-83-8	7.96 E-05	5.00	50000	0.14	1361
Subtotal			1.59 E-03	100.0	1000000	2.72	27213

Die Attach 2

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	1.24 E-03	77.71	777100	2.11	21147
Thermoset	Epichlorohydrin-formaldehyde-phenol copolymer	9003-36-5	4.95 E-05	3.11	31100	0.08	846
Other organic materials	Epoxy resin, epichlorohydrin-dimer fatty acid	68475-94-5	4.95 E-05	3.11	31100	0.08	846
Other organic materials	Butyrolactone, gamma-	96-48-0	4.95 E-05	3.11	31100	0.08	846
Other organic materials	Poly(oxypropylene) diamine	9046-10-0	4.95 E-05	3.11	31100	0.08	846
Other organic materials	2,6-Diglycidyl phenyl allyl ether oligomer	Unassigned	4.95 E-05	3.11	31100	0.08	846
Other organic materials	Organosilane	TS ref# 10001	4.95 E-05	3.11	31100	0.08	846
Other inorganic materials	Copper(II) oxide	1317-38-0	4.95 E-05	3.11	31100	0.08	846
Other organic materials	Epoxy resin modifier	TS ref# 10038	8.28 E-06	0.52	5200	0.01	142
Subtotal			1.59 E-03	100.0	1000000	2.72	27213

Cap Seal

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics/Glass	Lead borosilicate glass	65997-17-3	7.74 E-04	87.5	875000	1.32	13232
Ceramics/Glass	Aluminosilicate glass	65997-17-3	1.11 E-04	12.5	125000	0.19	1890
			8.85 E-04	100.0	1000000	1.51	15122
Package Totals			Weight (g) 5.85 E-02			Percentage (%) 100	PPM 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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