

Product / Package Information

Package	LFCSP - Sawn
Body Size (mm)	3 X 3 X 0.75 (1.6 EP)
Lead Count	16
Terminal Finish	NiPdAu
MS Number	MS012087C

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	9.98E-03	86.91	869100	49.16	491616
Thermosets	Epoxy & Phenol Resin	Proprietary	1.47E-03	12.78	127800	7.23	72292
Other inorganic materials	Carbon black	1333-86-4	3.56E-05	0.31	3100	0.18	1754
Subtotal			1.15E-02	100.00	1000000	56.57	565661

Leadframe

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	7.90 E-03	97.50	975000	38.89	388942
Copper & its alloys	Iron	7439-89-6	1.90 E-04	2.35	23500	0.94	9375
Copper & its alloys	Zinc	7440-66-6	9.72 E-06	0.12	1200	0.05	479
Copper & its alloys	Phosphorus	7723-14-0	2.43 E-06	0.03	300	0.01	120
Subtotal			8.10 E-03	100.00	1000000	39.89	398915

Internal / External Leadframe Plating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Nickel & its alloys	Nickel	7440-02-0	1.95 E-04	97.3	973000	0.96	9626
Precious metals	Palladium	7440-05-3	4.42 E-06	2.2	22000	0.02	218
Precious metals	Gold	7440-57-5	1.00 E-06	0.5	5000	0.00	49
Subtotal			2.01 E-04	100.00	1000000	0.99	9893

Bond Wires

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	4.28 E-05	99.0	990000	0.21	2106
Precious metals	Palladium	7440-05-3	4.32 E-07	1.0	10000	0.002	21
Subtotal			4.32 E-05	100.0	1000000	0.21	2128

Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	3.56 E-04	100.0	1000000	1.76	17552

Die Attach

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	9.56 E-05	80.50	805000	0.47	4710
Other organic materials	Carbocyclic Acrylates	Proprietary	1.19 E-05	10.00	100000	0.06	585
Other organic materials	Bismaleimide resin	Proprietary	3.56 E-06	3.00	30000	0.02	176
Other organic materials	2-preponoic acid, 2-methyl	68586-19-6	3.56 E-06	3.00	30000	0.02	176
Others	Additive	Proprietary	3.56 E-06	3.00	30000	0.02	176
Other organic materials	Dicumyl peroxide	80-43-3	5.94 E-07	0.50	5000	0.00	29
Subtotal			1.19 E-04	100.0	1000000	0.59	5851

Package Totals	Weight (g)	Percentage (%)	PPM
	2.03 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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Product / Package Information

Package	LFCSP - Sawn
Body Size (mm)	3 X 3 X 0.75 (1.6 EP)
Lead Count	16
Terminal Finish	100 Sn
MS Number	MS010600C

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	7.16E-03	86.2	862000	35.26		352639
Thermosets	Epoxy resin	Proprietary	4.98E-04	6.0	60000	2.45		24546
Thermosets	Phenol resin	Proprietary	4.98E-04	6.0	60000	2.45		24546
Other inorganic materials	Metal Hydroxide	Proprietary	1.25E-04	1.5	15000	0.61		6136
Other inorganic materials	Carbon black	1333-86-4	2.49E-05	0.3	3000	0.12		1227
Subtotal			8.30E-03	100.00	1000000	40.91		409094

Leadframe

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Copper & its alloys	Copper	7440-50-8	9.72 E-03	97.50	975000	47.86		478639
Copper & its alloys	Iron	7439-89-6	2.34 E-04	2.35	23500	1.15		11536
Copper & its alloys	Zinc	7440-66-6	1.20 E-05	0.12	1200	0.06		589
Copper & its alloys	Phosphorus	7723-14-0	2.99 E-06	0.03	300	0.01		147
Subtotal			9.97 E-03	100.00	1000000	49.09		490912

Internal Leadframe Plating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Precious metals	Silver	7440-22-4	2.49 E-05	100.0	1000000	0.12		1227

External Leadframe Plating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Tin & its alloys	Tin	7440-31-5	4.75 E-04	100.0	1000000	2.34		23377

Bond Wires

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Precious metals	Gold	7440-57-5	4.75 E-05	100.0	1000000	0.23		2338

Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Other inorganic materials	Doped Silicon	7440-21-3	1.42 E-03	100.0	1000000	7.01		70130

Die Attach

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Precious metals	Silver	7440-22-4	4.61 E-05	77.71	777100	0.23		2271
Thermoset	Epichlorohydrin-formaldehyde-phenol copolymer	9003-36-5	1.84 E-06	3.11	31100	0.01		91
Other organic materials	Epoxy resin, epichlorohydrin-dimer fatty acid	68475-94-5	1.84 E-06	3.11	31100	0.01		91
Other organic materials	Butyrolactone, gamma-	96-48-0	1.84 E-06	3.11	31100	0.01		91
Other organic materials	Poly(oxypropylene)diamine	9046-10-0	1.84 E-06	3.11	31100	0.01		91
Other organic materials	2,6-Diglycidyl phenyl allyl ether oligomer	Unassigned	1.84 E-06	3.11	31100	0.01		91
Other organic materials	Organosilane	TS ref# 10001	1.84 E-06	3.11	31100	0.01		91
Other inorganic materials	Copper(II) oxide	1317-38-0	1.84 E-06	3.11	31100	0.01		91
Other organic materials	Epoxy resin modifier	TS ref# 10038	3.08 E-07	0.52	5200	0.002		15
Subtotal			5.93 E-05	100.0	1000000	0.29		2922

Package Totals			Weight (g) 2.03 E-02			Percentage (%) 100		PPM 1000000
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