



**Product / Package Information**

Package	LFCSP
Body Size (mm)	4 X 4 X 0.95 (2.6 EP)
Lead Count	28
Terminal Finish	100 Sn
MS Number	MS012406B

**Environmental Information**

RoHS Compliant	Yes
High Temperature Compliant	Yes
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes
Last Updated	April 2, 2019

**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	2.25E-02	84.50	845000	37.15	371461
Thermosets	Epoxy & Phenol Resin	Proprietary	3.99E-03	15.00	150000	6.59	65940
Other inorganic materials	Carbon black	1333-86-4	1.33E-04	0.50	5000	0.22	2198
Subtotal			2.66 E-02	100.00	1000000	43.96	439599

**Leadframe**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	2.82 E-02	97.50	975000	46.60	466039
Copper & its alloys	Iron	7439-89-6	6.79 E-04	2.35	23500	1.12	11233
Copper & its alloys	Zinc	7440-66-6	3.47 E-05	0.12	1200	0.06	574
Copper & its alloys	Phosphorus	7723-14-0	8.67 E-06	0.03	300	0.01	143
Subtotal			2.89 E-02	100.00	1000000	47.80	477988

**Internal Leadframe Plating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	2.89 E-04	100.0	1000000	0.48	4780

**External Leadframe Plating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	1.69 E-03	100.0	1000000	2.79	27890

**Bond Wires**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	3.18 E-04	99.0	990000	0.53	5266
Precious metals	Palladium	7440-05-3	3.22 E-06	1.0	10000	0.01	53
Subtotal			3.22 E-04	100.0	1000000	0.53	5319

**Chip**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	2.03 E-03	100.0	1000000	3.36	33617

**Die Attach 1**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	2.84 E-04	77.00	770000	0.47	4693
Other organic materials	Acrylic resin	Proprietary	2.58 E-05	7.00	70000	0.04	427
Other organic materials	Acrylate	Proprietary	2.03 E-05	5.50	55000	0.03	335
Other organic materials	Polybutadiene derivative	Proprietary	1.66 E-05	4.50	45000	0.03	274
Thermoset	Epoxy resin	Proprietary	9.21 E-06	2.50	25000	0.02	152
Other organic materials	Butadiene Copolymer	Proprietary	5.53 E-06	1.50	15000	0.01	91
Others	Additive	Proprietary	5.53 E-06	1.50	15000	0.01	91
Others	Peroxide	Proprietary	1.84 E-06	0.50	5000	0.003	30
Subtotal			3.69 E-04	100.0	1000000	0.61	6095

**Die Attach 2**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Modified Epoxy Resin	Trade secret	1.85 E-04	65.0	650000	0.31	3063
Other organic materials	Epoxy Resin	Trade secret	7.12 E-05	25.0	250000	0.12	1178
Other organic materials	Dapsone	80-08-0	7.12 E-06	2.5	25000	0.01	118
Other organic materials	Siloxanes and Silicones, di-Me, read	67762-90-7	7.12 E-06	2.5	25000	0.01	118
Other organic materials	Proprietary	Trade secret	7.12 E-06	2.5	25000	0.01	118
Other organic materials	Elastomeric polymer	Trade secret	7.12 E-06	2.5	25000	0.01	118
Subtotal			2.85 E-04	100	1000000	0.47	4712

<b>Package Totals</b>			<b>Weight (g)</b> 6.05 E-02			<b>Percentage (%)</b> 100	<b>PPM</b> 1000000
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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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