

**Product / Package Information**

Package	LFCSP
Body Size (mm)	5X5X1.8 (3.7 EP)
Lead Count	32
Terminal Finish	100 Sn
MS Number	MS012565C

**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	4.36E-02	86.20	862000	36.44	364390
Thermosets	Epoxy resin	Proprietary	3.04E-03	6.00	60000	2.54	25364
Thermosets	Phenol Resin	Proprietary	3.04E-03	6.00	60000	2.54	25364
Other inorganic materials	Metal Hydroxide	Proprietary	7.60E-04	1.50	15000	0.63	6341
Other inorganic materials	Carbon Black	1333-86-4	1.52E-04	0.30	3000	0.13	1268
Subtotal			5.06 E-02	100.00	1000000	42.27	422726

**Leadframe**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	5.37 E-02	97.50	975000	44.82	448151
Copper & its alloys	Iron	7439-89-6	1.29 E-03	2.35	23500	1.08	10802
Copper & its alloys	Zinc	7440-66-6	6.61 E-05	0.12	1200	0.06	552
Copper & its alloys	Phosphorus	7723-14-0	1.65 E-05	0.03	300	0.01	139
Subtotal			5.51 E-02	100.00	1000000	45.96	459642

**Internal Leadframe Plating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	5.51 E-04	100.0	1000000	0.46	4596

**External Leadframe Plating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	3.21 E-03	100.0	1000000	2.68	26820

**Bond Wires**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	6.07 E-04	99.0	990000	0.51	5064
Precious metals	Palladium	7440-05-3	6.13 E-06	1.0	10000	0.01	51
Subtotal		7440-57-5	6.13 E-04	100.0	1000000	0.51	5115

**Chip**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	7.74 E-03	100.0	1000000	6.47	64654

**Die Attach 1**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	2,2-dimethyl-1,3-propanediyl bismethacrylate	1985-51-9	2.71 E-05	5.00	50000	0.02	227
Other organic materials	2,6-Diglycidyl phenyl allyl ether oligomer	Propriety	2.71 E-05	5.00	50000	0.02	227
Organic materials	Bisphenol-A epichlorhydrin resin MW <= 700	25068-38-6	2.71 E-06	0.50	5000	0.00	23
Others	Propriety	Propriety	4.86 E-04	89.50	895000	0.41	4055
Subtotal			5.43 E-04	100.00	1000000	0.45	4531

**Die Attach 2**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Ethene, tetrafluoro-, homopolymer	9002-84-0	3.26 E-04	60.00	600000	0.27	2719
Other organic materials	Bismaleimide resin	Propriety	1.14 E-04	21.00	210000	0.10	952
Other organic materials	Titanium dioxide	13463-67-7	4.88 E-05	9.00	90000	0.04	408
Others	Additive	Propriety	1.63 E-05	3.00	30000	0.01	136
Other inorganic materials	Silicon dioxide	7631-86-9	2.71 E-05	5.00	50000	0.02	227
Other inorganic materials	Substituted silane	Propriety	5.43 E-06	1.00	10000	0.00	45
Other inorganic materials	Aluminium hydroxide	21645-51-2	5.43 E-06	1.00	10000	0.00	45
Subtotal			5.43 E-04	100.00	1000000	0.45	4531

**Seal Glass**

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	0.65	6461
Ceramics/Glass	Aluminosilicate glass	65997-17-3	1.11 E-04	12.5	125000	0.09	923
Subtotal			8.85 E-04	100	1000000	0.74	7384

<b>Package Totals</b>			<b>Weight (g)</b>	<b>Percentage (%)</b>	<b>PPM</b>
			1.20 E-01	100	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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