

**Product / Package Information**

Package	LCC_HS
Body Size	6 X 6
Lead Count	16
Terminal Finish	Au
MS Number	

**Environmental Information**

RoHS Compliant	Yes
High Temperature Compliant	N/A
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

**Materials Declaration**

**Ceramic Body**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics	Alumina	1344-28-1	4.58 E-02	89.23	892283	33.88	338810
Ceramics	Silicon Dioxide	14808-60-7	3.59 E-03	7.00	70024	2.66	26589
Ceramics	Zirconium Oxide	1314-23-4	7.97 E-04	1.55	15536	0.59	5899
Ceramics	Calcium Oxide	1305-78-8	6.95 E-04	1.36	13555	0.51	5147
Ceramics	Magnesium Oxide	1309-48-4	4.41 E-04	0.86	8602	0.33	3266
Subtotal			5.13 E-02	100.00	1000000	37.97	379711

**Lid**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Ceramics	Alumina	1344-28-1	3.36 E-02	93.45	934460	24.85	248508
Ceramics	Inorganic Binders	Proprietary	1.60 E-03	4.47	44662	1.19	11877
Ceramics	Epoxy, B-Stage	7440-66-6	7.50 E-04	2.09	20878	0.56	5552
Subtotal			3.59 E-02	100.00	1000000	26.59	265938

**Package Metal Base**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other non-ferrous metals and alloys	Molybdenum	1439-98-7	1.59 E-02	64.98	649812	11.77	117707
Copper & its alloys	Copper	1440-50-8	8.57 E-03	35.02	350188	6.34	63433
Subtotal			2.45 E-02	100.00	1000000	18.11	181140

**Base Metal Brazing Alloy**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious Metals	Silver	7440-22-4	1.79 E-03	79.12	791194	1.32	13219
Copper & its alloys	Copper	7440-50-8	4.71 E-04	20.88	208806	0.35	3489
Subtotal			2.26 E-03	100.00	1000000	1.67	16708

**Package Metal Base Plating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Nickel & its alloys	Nickel	7440-02-0	5.74 E-05	29.56	295585	0.04	425
Precious metals	Gold	7440-57-5	1.37 E-04	70.44	704415	0.10	1012
Subtotal			1.94 E-04	100.00	1000000	0.14	1437

**Pad Plating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other non-ferrous metals and alloys	Tungsten	7440-33-7	8.35 E-03	81.09	810892	6.18	61821
Nickel & its alloys	Nickel	7440-02-0	5.95 E-04	5.78	57784	0.44	4405
Precious metals	Gold	7440-57-5	1.35 E-03	13.13	131324	1.00	10012
Subtotal			1.03 E-02	100.00	1000000	7.62	76238

**Bond Wires**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	2.67 E-04	99.99	1000000	0.20	1977

**Chip**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Gallium Arsenide	1303-00-0	7.36 E-03	100.0	1000000	5.45	54460

**Die Attach**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	2.03 E-03	82.63	672095	1.50	15048
Other organic materials	Epoxy Resin	Proprietary	3.96 E-04	4.21	130809	0.29	2929
Other organic materials	Additives	3101-60-8	3.96 E-04	4.21	130809	0.29	2929
Other organic materials	High-boiling solvent	92-88-6	2.00 E-04	8.95	66288	0.15	1484
<b>Subtotal</b>			<b>3.02 E-03</b>	<b>100.0</b>	<b>1000000</b>	<b>2.24</b>	<b>22390</b>

<b>Package Totals</b>			<b>Weight (g)</b> 1.35 E-01			<b>Percentage (%)</b> 100.00	<b>PPM</b> 1000000
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