

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1159cg-5#pbf

(Engineering Calculation)

SSOP

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**TOTAL MASS (g) : 0.149247**

COMPONENT MATERIAL	VENDOR/ INDUSTRY NAMES	CONSTITUENT NAME	CAS NUMBER	CONSTITUENT MASS (g)	CONSTITUENT (PPM) OF MATERIAL	CONSTITUENT (PPM) OF TOTAL PKG.		
Active Device	Linear Technology	Silicon (Si)	7440-21-3	0.003629	1000000	24315.453125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.058880	975000	394514.75		
		Iron (Fe)	7439-89-6	0.001449	24000	9708.76074219		
		Phosphorus (P)	7723-14-0	0.000018	300	120.605728149		
		Zinc (Zn)	7440-66-6	0.000042	700	281.413360596		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-95-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
<b>Lead Frame Total:</b>				<b>0.060389</b>	<b>1000000</b>	<b>404625.5</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002831	1000000	18966.140625		
		<b>External Plating Total:</b>				<b>0.002831</b>	<b>1000000</b>	<b>18966.140625</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000483	1000000	3236.25366211		
<b>Internal Plating Total:</b>				<b>0.000483</b>	<b>1000000</b>	<b>3236.25366211</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001040	750000	6968.33056641		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000000	0	0		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000000	0	0		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000347	250000	2325.01025391		
<b>Die Attach Total:</b>				<b>0.001387</b>	<b>1000000</b>	<b>9293.34082031</b>		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.012027	150000	80584.7265625		
		Bromine (Br)	40039-93-8	0.000802	10000	5373.65478516		
		Silica (SiO2)	60676-86-0	0.064946	810000	435158.875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.002405	30000	16114.2646484		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		<b>Encapsulation Total:</b>				<b>0.080180</b>	<b>1000000</b>	<b>537231.4375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000348	1000000	2331.71069336		
					<b>TOTAL MASS (g) :</b>	<b>0.149247</b>		