

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1598cg#pbf

(Engineering Calculation)

SSOP

(printed on: 2020-07-11 21:40:54)

**TOTAL MASS (g) : 0.159077**

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	0.001460	1000000	9177.96875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.075163	975000	472495.65625		
		Iron (Fe)	7439-89-6	0.001850	24000	11629.6181641		
		Phosphorus (P)	7723-14-0	0.000023	300	144.584442139		
		Zinc (Zn)	7440-66-6	0.000054	700	339.459106445		
		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>0.077090</b>	<b>1000000</b>	<b>484609.3125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003400	1000000	21370.8359375		
		<b>External Plating Total:</b>				<b>0.003400</b>	<b>1000000</b>	<b>21370.8359375</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000617	1000000	3878.63452148		
<b>Internal Plating Total:</b>				<b>0.000617</b>	<b>1000000</b>	<b>3878.63452148</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000558	750000	3507.74414062		
		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)		0.000186	250000	1169.24804688		
<b>Die Attach Total:</b>				<b>0.000744</b>	<b>1000000</b>	<b>4676.9921875</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.007726	103000	48567.796875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.067134	895000	422023.09375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000150	2000	942.942016602		
		<b>Encapsulation Total:</b>				<b>0.075010</b>	<b>1000000</b>	<b>471533.84375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000756	1000000	4752.42724609		
					<b>TOTAL MASS (g) :</b>	<b>0.159077</b>		