

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1605csw#pbf

(Engineering Calculation)

SOIC WIDE

(printed on: 2020-07-11 18:47:25)

**TOTAL MASS (g) : 0.755994**

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	0.009889	1000000	13080.7851562		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.185240	975000	245028.265625		
		Iron (Fe)	7439-89-6	0.004560	24000	6031.79052734		
		Phosphorus (P)	7723-14-0	0.000057	300	75.3973846436		
		Zinc (Zn)	7440-66-6	0.000133	700	175.927230835		
		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>0.189990</b>	<b>1000000</b>	<b>251311.390625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.008359	1000000	11057.4375		
		<b>External Plating Total:</b>				<b>0.008359</b>	<b>1000000</b>	<b>11057.4375</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001513	1000000	2001.33764648		
<b>Internal Plating Total:</b>				<b>0.001513</b>	<b>1000000</b>	<b>2001.33764648</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.002146	750000	2838.64550781		
		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)		0.000715	250000	945.774169922		
<b>Die Attach Total:</b>				<b>0.002861</b>	<b>1000000</b>	<b>3784.41943359</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.073286	135000	96939.8671875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.466860	860000	617544.3125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.002714	5000	3589.97387695		
		<b>Encapsulation Total:</b>				<b>0.542860</b>	<b>1000000</b>	<b>718074.0625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000522	1000000	690.481323242		
					<b>TOTAL MASS (g) :</b>	<b>0.755994</b>		