

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1345csw#trpbf

(Engineering Calculation)

SOIC WIDE

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**TOTAL MASS (g) : 0.75299**

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	0.007146	1000000	9490.16113281		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.185240	975000	246005.796875		
		Iron (Fe)	7439-89-6	0.004560	24000	6055.85449219		
		Phosphorus (P)	7723-14-0	0.000057	300	75.6981811523		
		Zinc (Zn)	7440-66-6	0.000133	700	176.629074097		
		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>252313.96875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.008359	1000000	11101.5507812		
		<b>External Plating Total:</b>				<b>0.008359</b>	<b>1000000</b>	<b>11101.5507812</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001513	1000000	2009.32189941		
<b>Internal Plating Total:</b>				<b>0.001513</b>	<b>1000000</b>	<b>2009.32189941</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001680	750000	2231.10424805		
		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)		0.000560	250000	743.701416016		
<b>Die Attach Total:</b>				<b>0.002240</b>	<b>1000000</b>	<b>2974.80566406</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.073286	135000	97326.609375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.466860	860000	620007.9375		
		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	3604.2956543		
		<b>Encapsulation Total:</b>				<b>0.542860</b>	<b>1000000</b>	<b>720938.8125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000882	1000000	1171.32971191		
					<b>TOTAL MASS (g) :</b>	<b>0.75299</b>		