

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1725cs#trpbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 17:46:43)

**TOTAL MASS (g) : 0.155728**

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	0.003047	1000000	19566.2050781		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.051070	975000	327944.21875		
		Iron (Fe)	7439-89-6	0.001257	24000	8071.78222656		
		Phosphorus (P)	7723-14-0	0.000016	300	102.743438721		
		Zinc (Zn)	7440-66-6	0.000037	700	237.594223022		
		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>0.052380</b>	<b>1000000</b>	<b>336356.34375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002954	1000000	18967.1074219		
		<b>External Plating Total:</b>				<b>0.002954</b>	<b>1000000</b>	<b>18967.1074219</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000419	1000000	2690.59399414		
<b>Internal Plating Total:</b>				<b>0.000419</b>	<b>1000000</b>	<b>2690.59399414</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000918	750000	5894.90478516		
		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)		0.000306	250000	1964.96838379		
<b>Die Attach Total:</b>				<b>0.001224</b>	<b>1000000</b>	<b>7859.87353516</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.012389	130000	79555.5234375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.079099	830000	507931.46875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.003336	35000	21422.0078125		
		Carbon Black (C)	1333-86-4	0.000477	5000	3063.03881836		
		<b>Encapsulation Total:</b>				<b>0.095301</b>	<b>1000000</b>	<b>611972.0625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000403	1000000	2587.8503418		
					<b>TOTAL MASS (g) :</b>	<b>0.155728</b>		