

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1357cs8#trpbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 20:07:39)

**TOTAL MASS (g) : 0.073183**

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	0.001870	1000000	25552.4355469		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000078	1000000	1065.82348633		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.014071	580000	192271.8125		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.010189	420000	139226.59375		
		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>0.024260</b>	<b>1000000</b>	<b>331498.40625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	20180.3007812		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>20180.3007812</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2650.89428711		
<b>Internal Plating Total:</b>				<b>0.000194</b>	<b>1000000</b>	<b>2650.89428711</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000667	750000	9114.15722656		
		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)		0.000222	250000	3033.49755859		
<b>Die Attach Total:</b>				<b>0.000889</b>	<b>1000000</b>	<b>12147.6542969</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006634	150000	90649.65625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036269	820000	495594.25		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001106	25000	15112.8300781		
		Carbon Black (C)	1333-86-4	0.000221	5000	3019.83300781		
		<b>Encapsulation Total:</b>				<b>0.044230</b>	<b>1000000</b>	<b>604376.5625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2527.91479492		
					<b>TOTAL MASS (g) :</b>	<b>0.073183</b>		