

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t3599ife#pbf

(Engineering Calculation)

TSSOP Exp. Pad

(printed on: 2020-07-11 18:23:02)

**TOTAL MASS (g) : 0.095032**

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	0.002970	1000000	31252.5136719		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.030596	975000	321953.5		
		Iron (Fe)	7439-89-6	0.000753	24000	7923.6171875		
		Phosphorus (P)	7723-14-0	0.000009	300	94.7045898438		
		Zinc (Zn)	7440-66-6	0.000022	700	231.500106812		
		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>0.031380</b>	<b>1000000</b>	<b>330203.3125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002480	1000000	26100.0996094		
		<b>External Plating Total:</b>				<b>0.002480</b>	<b>1000000</b>	<b>26100.0996094</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000806	1000000	8481.32226562		
<b>Internal Plating Total:</b>				<b>0.000806</b>	<b>1000000</b>	<b>8481.32226562</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000896	750000	9428.36816406		
		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)		0.000299	250000	3146.296875		
<b>Die Attach Total:</b>				<b>0.001195</b>	<b>1000000</b>	<b>12574.6640625</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.007460	135000	78499.578125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.047524	860000	500082.3125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000276	5000	2904.27392578		
		<b>Encapsulation Total:</b>				<b>0.055260</b>	<b>1000000</b>	<b>581486.1875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000941	1000000	9901.890625		
					<b>TOTAL MASS (g) :</b>	<b>0.095032</b>		