

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1tc3633aefe-3#pbf

(Engineering Calculation)

TSSOP Exp. Pad

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**TOTAL MASS (g) : 0.095931**

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	0.003623	1000000	37766.5898438		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.030596	975000	318936.40625		
		Iron (Fe)	7439-89-6	0.000753	24000	7849.36279297		
		Phosphorus (P)	7723-14-0	0.000009	300	93.8170928955		
		Zinc (Zn)	7440-66-6	0.000022	700	229.330657959		
		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>327108.90625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002480	1000000	25855.5097656		
		<b>External Plating Total:</b>				<b>0.002480</b>	<b>1000000</b>	<b>25855.5097656</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000806	1000000	8401.84179688		
		<b>Internal Plating Total:</b>				<b>0.000806</b>	<b>1000000</b>	<b>8401.84179688</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001081	750000	11268.4746094		
		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)		0.000360	250000	3752.68359375		
<b>Die Attach Total:</b>				<b>0.001441</b>	<b>1000000</b>	<b>15021.1582031</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.007460	135000	77763.9453125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.047524	860000	495395.9375		
		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	2877.05761719		
		<b>Encapsulation Total:</b>				<b>0.055260</b>	<b>1000000</b>	<b>576036.9375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000941	1000000	9809.09863281		
					<b>TOTAL MASS (g) :</b>	<b>0.095931</b>		