

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

TSSOP Exp. Pad

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**TOTAL MASS (g) : 0.059891**

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	0.003723	1000000	62162.765625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.018525	975000	309311.125		
		Iron (Fe)	7439-89-6	0.000456	24000	7613.81201172		
		Phosphorus (P)	7723-14-0	0.000006	300	100.181739807		
		Zinc (Zn)	7440-66-6	0.000013	700	217.060424805		
		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>0.019000</b>	<b>1000000</b>	<b>317242.15625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002537	1000000	42362.78125		
		<b>External Plating Total:</b>				<b>0.002537</b>	<b>1000000</b>	<b>42362.78125</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000250	1000000	4174.23876953		
<b>Internal Plating Total:</b>				<b>0.000250</b>	<b>1000000</b>	<b>4174.23876953</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001082	750000	18066.1054688		
		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)		0.000361	250000	6027.60107422		
<b>Die Attach Total:</b>				<b>0.001443</b>	<b>1000000</b>	<b>24093.7089844</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004875	150000	81397.65625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.026650	820000	444973.875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000813	25000	13574.625		
		Carbon Black (C)	1333-86-4	0.000163	5000	2721.60400391		
		<b>Encapsulation Total:</b>				<b>0.032501</b>	<b>1000000</b>	<b>542667.75</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000437	1000000	7296.56982422		
					<b>TOTAL MASS (g) :</b>	<b>0.059891</b>		