

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t8316ife#pbf

(Engineering Calculation)

eTSSOP with 4 PINS REMOVED

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**TOTAL MASS (g) : 0.069517**

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	0.001027	1000000	14773.2929688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.024424	975000	351336.8125		
		Iron (Fe)	7439-89-6	0.000601	24000	8645.32519531		
		Phosphorus (P)	7723-14-0	0.000008	299.999908447	115.079208374		
		Zinc (Zn)	7440-66-6	0.000018	700	258.928222656		
		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>0.025051</b>	<b>1000000</b>	<b>360356.15625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001770	1000000	25466.0058594		
		<b>External Plating Total:</b>				<b>0.001770</b>	<b>1000000</b>	<b>25466.0058594</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000620	1000000	8918.63867188		
<b>Internal Plating Total:</b>				<b>0.000620</b>	<b>1000000</b>	<b>8918.63867188</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000450	750000	6473.20556641		
		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)		0.000150	250000	2157.73510742		
<b>Die Attach Total:</b>				<b>0.000600</b>	<b>1000000</b>	<b>8630.94042969</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.005414	135000	77879.8515625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.034486	860000	496077.6875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000201	5000	2891.36523438		
		<b>Encapsulation Total:</b>				<b>0.040101</b>	<b>1000000</b>	<b>576848.9375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000348	1000000	5005.9453125		
					<b>TOTAL MASS (g) :</b>	<b>0.069517</b>		