

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

TSSOP Exp. Pad

(printed on: 2020-07-11 19:32:47)

**TOTAL MASS (g) : 0.052349**

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	0.000887	1000000	16944.0332031		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.014625	975000	279376		
		Iron (Fe)	7439-89-6	0.000360	24000	6876.94775391		
		Phosphorus (P)	7723-14-0	0.000004	300	76.4105300903		
		Zinc (Zn)	7440-66-6	0.000010	700	191.026306152		
		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>0.014999</b>	<b>1000000</b>	<b>286520.40625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002064	1000000	39424.125		
		<b>External Plating Total:</b>				<b>0.002064</b>	<b>1000000</b>	<b>39424.125</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001037	1000000	19809.4277344		
<b>Internal Plating Total:</b>				<b>0.001037</b>	<b>1000000</b>	<b>19809.4277344</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000407	750000	7774.77148438		
		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)		0.000136	250000	2597.95800781		
<b>Die Attach Total:</b>				<b>0.000543</b>	<b>1000000</b>	<b>10372.7294922</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004875	150000	93125.3359375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.026650	820000	509085.125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000813	25000	15530.4404297		
		Carbon Black (C)	1333-86-4	0.000163	5000	3113.72924805		
		<b>Encapsulation Total:</b>				<b>0.032501</b>	<b>1000000</b>	<b>620854.6875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000318	1000000	6074.63720703		
					<b>TOTAL MASS (g) :</b>	<b>0.052349</b>		