

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

TSSOP Exp. Pad

(printed on: 2020-07-11 22:16:56)

**TOTAL MASS (g) : 0.074102**

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	0.004260	1000000	57488.0664062		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.024424	975000	329598.25		
		Iron (Fe)	7439-89-6	0.000601	24000	8110.40576172		
		Phosphorus (P)	7723-14-0	0.000008	300	107.958808899		
		Zinc (Zn)	7440-66-6	0.000018	700	242.907333374		
		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>338059.5</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001770	1000000	23890.3261719		
		<b>External Plating Total:</b>				<b>0.001770</b>	<b>1000000</b>	<b>23890.3261719</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000683	1000000	9216.98339844		
<b>Internal Plating Total:</b>				<b>0.000683</b>	<b>1000000</b>	<b>9216.98339844</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001205	750000	16261.2958984		
		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)		0.000402	250000	5424.93017578		
<b>Die Attach Total:</b>				<b>0.001607</b>	<b>1000000</b>	<b>21686.2265625</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006015	150000	81171.53125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.032882	820000	443737.71875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001003	25000	13535.3359375		
		Carbon Black (C)	1333-86-4	0.000201	5000	2712.46508789		
		<b>Encapsulation Total:</b>				<b>0.040101</b>	<b>1000000</b>	<b>541157</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000630	1000000	8501.75683594		
					<b>TOTAL MASS (g) :</b>	<b>0.074102</b>		