

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

TSOT-23

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**TOTAL MASS (g) : 0.012264**

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	0.000727	1000000	59280.3710938		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004582	975000	373621.25		
		Iron (Fe)	7439-89-6	0.000113	24000	9214.14355469		
		Phosphorus (P)	7723-14-0	0.000001	300	81.5410842896		
		Zinc (Zn)	7440-66-6	0.000003	700	244.623260498		
		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>0.004699</b>	<b>1000000</b>	<b>383161.5625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000644	1000000	52492.5625		
		<b>External Plating Total:</b>				<b>0.000644</b>	<b>1000000</b>	<b>52492.5625</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6523.28710938		
<b>Internal Plating Total:</b>				<b>0.000080</b>	<b>1000000</b>	<b>6523.28710938</b>		
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000005	50000	407.705444336		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000032	300000	2609.31469727		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000070	650000	5707.87646484		
<b>Die Attach Total:</b>				<b>0.000107</b>	<b>1000000</b>	<b>8724.89648438</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000772	130000	62949.71875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.004930	830000	401997.53125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000208	35000	16960.546875		
		Carbon Black (C)	1333-86-4	0.000030	5000	2446.23266602		
		<b>Encapsulation Total:</b>				<b>0.005940</b>	<b>1000000</b>	<b>484354.0625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000067	1000000	5463.25292969		
					<b>TOTAL MASS (g) :</b>	<b>0.012264</b>		