

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

TSOT-23

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**TOTAL MASS (g) : 0.012481**

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	0.000567	1000000	45428.1992188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004485	975000	359339.4375		
		Iron (Fe)	7439-89-6	0.000110	24000	8813.23046875		
		Phosphorus (P)	7723-14-0	0.000001	300	80.1202774048		
		Zinc (Zn)	7440-66-6	0.000003	700	240.360839844		
		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>0.004599</b>	<b>1000000</b>	<b>368473.15625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000635	1000000	50895.2578125		
		<b>External Plating Total:</b>				<b>0.000635</b>	<b>1000000</b>	<b>50895.2578125</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6409.62158203		
<b>Internal Plating Total:</b>				<b>0.000080</b>	<b>1000000</b>	<b>6409.62158203</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000409	750000	32769.1914062		
		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	10896.3574219		
<b>Die Attach Total:</b>				<b>0.000545</b>	<b>1000000</b>	<b>43665.5507812</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000775	130000	62093.21875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.004947	830000	396355.03125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000209	35000	16745.1386719		
		Carbon Black (C)	1333-86-4	0.000030	5000	2403.60839844		
		<b>Encapsulation Total:</b>				<b>0.005961</b>	<b>1000000</b>	<b>477596.96875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000094	1000000	7531.30615234		
					<b>TOTAL MASS (g) :</b>	<b>0.012481</b>		