

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

TSOT-23

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**TOTAL MASS (g) : 0.012516**

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	0.000549	1000000	43864.7070312		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004582	975000	366098.53125		
		Iron (Fe)	7439-89-6	0.000113	24000	9028.61914062		
		Phosphorus (P)	7723-14-0	0.000001	300	79.8992843628		
		Zinc (Zn)	7440-66-6	0.000003	700	239.697860718		
		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>375446.78125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000644	1000000	51435.6445312		
		<b>External Plating Total:</b>				<b>0.000644</b>	<b>1000000</b>	<b>51435.6445312</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6391.94287109		
<b>Internal Plating Total:</b>				<b>0.000080</b>	<b>1000000</b>	<b>6391.94287109</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000403	750000	32199.4121094		
		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)		0.000134	250000	10706.5048828		
<b>Die Attach Total:</b>				<b>0.000537</b>	<b>1000000</b>	<b>42905.9179688</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000772	130000	61682.25		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.004930	830000	393903.46875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000208	35000	16619.0507812		
		Carbon Black (C)	1333-86-4	0.000030	5000	2396.97851562		
		<b>Encapsulation Total:</b>				<b>0.005940</b>	<b>1000000</b>	<b>474601.78125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000067	1000000	5353.25244141		
					<b>TOTAL MASS (g) :</b>	<b>0.012516</b>		