

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

TSOT-23

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**TOTAL MASS (g) : 0.012455**

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	44077.8515625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004485	975000	360089.53125		
		Iron (Fe)	7439-89-6	0.000110	24000	8831.62792969		
		Phosphorus (P)	7723-14-0	0.000001	300	80.2875213623		
		Zinc (Zn)	7440-66-6	0.000003	700	240.862594604		
		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>369242.3125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000635	1000000	51001.5		
		<b>External Plating Total:</b>				<b>0.000635</b>	<b>1000000</b>	<b>51001.5</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6423.00146484		
<b>Internal Plating Total:</b>				<b>0.000080</b>	<b>1000000</b>	<b>6423.00146484</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000403	750000	32355.875		
		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	10758.5283203		
<b>Die Attach Total:</b>				<b>0.000537</b>	<b>1000000</b>	<b>43114.4023438</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000775	130000	62222.8359375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.004947	830000	397182.40625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000209	35000	16780.09375		
		Carbon Black (C)	1333-86-4	0.000030	5000	2408.62548828		
		<b>Encapsulation Total:</b>				<b>0.005961</b>	<b>1000000</b>	<b>478593.9375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000094	1000000	7547.02734375		
					<b>TOTAL MASS (g) :</b>	<b>0.012455</b>		