

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1761es5-1.5#trmpbf

(Engineering Calculation)

TSOT-23

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**TOTAL MASS (g) : 0.012601**

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	0.000673	1000000	53407.4648438		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004485	975000	355917.46875		
		Iron (Fe)	7439-89-6	0.000110	24000	8729.30371094		
		Phosphorus (P)	7723-14-0	0.000001	300	79.3572998047		
		Zinc (Zn)	7440-66-6	0.000003	700	238.071914673		
		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>364964.21875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000635	1000000	50410.5898438		
		<b>External Plating Total:</b>				<b>0.000635</b>	<b>1000000</b>	<b>50410.5898438</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6348.58398438		
<b>Internal Plating Total:</b>				<b>0.000080</b>	<b>1000000</b>	<b>6348.58398438</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000448	750000	35552.0742188		
		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)		0.000149	250000	11824.2382812		
<b>Die Attach Total:</b>				<b>0.000597</b>	<b>1000000</b>	<b>47376.3085938</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000775	130000	61501.9101562		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.004947	830000	392580.59375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000209	35000	16585.6757812		
		Carbon Black (C)	1333-86-4	0.000030	5000	2380.71899414		
		<b>Encapsulation Total:</b>				<b>0.005961</b>	<b>1000000</b>	<b>473048.875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000056	1000000	4444.00927734		
					<b>TOTAL MASS (g) :</b>	<b>0.012601</b>		