

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

TSOT-23 (COL)

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**TOTAL MASS (g) : 0.012813**

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	0.000880	1000000	68680.9609375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.005530	975000	431597.40625		
		Iron (Fe)	7439-89-6	0.000136	24000	10614.3310547		
		Phosphorus (P)	7723-14-0	0.000002	300	156.093093872		
		Zinc (Zn)	7440-66-6	0.000004	700	312.186187744		
		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>0.005672</b>	<b>1000000</b>	<b>442680</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000038	1000000	2955.46655273		
		<b>External Plating Total:</b>				<b>0.000038</b>	<b>1000000</b>	<b>2955.46655273</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6243.72363281		
<b>Internal Plating Total:</b>				<b>0.000080</b>	<b>1000000</b>	<b>6243.72363281</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	0.000006	50000	468.279296875		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000038	300000	2965.76855469		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000083	650000	6477.86328125		
<b>Die Attach Total:</b>				<b>0.000127</b>	<b>1000000</b>	<b>9911.91113281</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000346	58000	27004.1035156		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.005304	890000	413958.875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000298	50000	23257.8710938		
		Carbon Black (C)	1333-86-4	0.000012	2000	936.55859375		
		<b>Encapsulation Total:</b>				<b>0.005960</b>	<b>1000000</b>	<b>465157.40625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000056	1000000	4370.60644531		
					<b>TOTAL MASS (g) :</b>	<b>0.012813</b>		