

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc2063is5#trmpbf

(Engineering Calculation)

TSOT-23

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**TOTAL MASS (g) : 0.011903**

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	0.000492	1000000	41333.3007812		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004485	975000	376788.28125		
		Iron (Fe)	7439-89-6	0.000110	24000	9241.18554688		
		Phosphorus (P)	7723-14-0	0.000001	300	84.0107650757		
		Zinc (Zn)	7440-66-6	0.000003	700	252.032333374		
		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>386365.53125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000635	1000000	53366.640625		
		<b>External Plating Total:</b>				<b>0.000635</b>	<b>1000000</b>	<b>53366.640625</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6720.86132812		
		<b>Internal Plating Total:</b>				<b>0.000080</b>	<b>1000000</b>	<b>6720.86132812</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	0.000004	50000	336.043060303		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000024	300000	2016.25866699		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000053	650000	4452.57080078		
<b>Die Attach Total:</b>				<b>0.000081</b>	<b>1000000</b>	<b>6804.87207031</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000346	58000	29067.7246094		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.005304	890000	445593.125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000298	50000	25035.2089844		
		Carbon Black (C)	1333-86-4	0.000012	2000	1008.1293335		
		<b>Encapsulation Total:</b>				<b>0.005960</b>	<b>1000000</b>	<b>500704.21875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000056	1000000	4704.60302734		
					<b>TOTAL MASS (g) :</b>	<b>0.011903</b>		