

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1277isw#trpbf

(Engineering Calculation)

SOIC WIDE

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**TOTAL MASS (g) : 0.643507**

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	0.008221	1000000	12775.2988281		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.139415	975000	216648.609375		
		Iron (Fe)	7439-89-6	0.003432	24000	5333.27148438		
		Phosphorus (P)	7723-14-0	0.000043	300	66.8212890625		
		Zinc (Zn)	7440-66-6	0.000100	700	155.398345947		
		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>0.142990</b>	<b>1000000</b>	<b>222204.09375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.007167	1000000	11138.1230469		
		<b>External Plating Total:</b>				<b>0.007167</b>	<b>1000000</b>	<b>11138.1230469</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001144	1000000	1777.75708008		
<b>Internal Plating Total:</b>				<b>0.001144</b>	<b>1000000</b>	<b>1777.75708008</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001860	750000	2890.40917969		
		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)		0.000620	250000	963.469787598		
<b>Die Attach Total:</b>				<b>0.002480</b>	<b>1000000</b>	<b>3853.87915039</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.049522	103000	76956.3671875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.430316	895000	668704		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000962	2000	1494.93212891		
		<b>Encapsulation Total:</b>				<b>0.480800</b>	<b>1000000</b>	<b>747155.25</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000705	1000000	1095.55834961		
					<b>TOTAL MASS (g) :</b>	<b>0.643507</b>		