

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1321isw#trpbf

(Engineering Calculation)

SOIC WIDE

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**TOTAL MASS (g) : 0.640905**

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	0.006108	1000000	9530.265625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.139415	975000	217528.171875		
		Iron (Fe)	7439-89-6	0.003432	24000	5354.92382812		
		Phosphorus (P)	7723-14-0	0.000043	300	67.0925750732		
		Zinc (Zn)	7440-66-6	0.000100	700	156.029251099		
		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>223106.203125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.007167	1000000	11183.3417969		
		<b>External Plating Total:</b>				<b>0.007167</b>	<b>1000000</b>	<b>11183.3417969</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001144	1000000	1784.9744873		
		<b>Internal Plating Total:</b>				<b>0.001144</b>	<b>1000000</b>	<b>1784.9744873</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001493	750000	2329.51635742		
		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)		0.000498	250000	777.025634766		
<b>Die Attach Total:</b>				<b>0.001991</b>	<b>1000000</b>	<b>3106.54223633</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.049522	103000	77268.8046875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.430316	895000	671418.8125		
		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	1501.00134277		
		<b>Encapsulation Total:</b>				<b>0.480800</b>	<b>1000000</b>	<b>750188.5625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000705	1000000	1100.00610352		
					<b>TOTAL MASS (g) :</b>	<b>0.640905</b>		