

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1415isw#pbf

(Engineering Calculation)

SOIC WIDE

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**TOTAL MASS (g) : 0.752096**

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	0.006393	1000000	8500.24121094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.185240	975000	246298.21875		
		Iron (Fe)	7439-89-6	0.004560	24000	6063.05224609		
		Phosphorus (P)	7723-14-0	0.000057	300	75.7881622314		
		Zinc (Zn)	7440-66-6	0.000133	700	176.839035034		
		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>0.189990</b>	<b>1000000</b>	<b>252613.90625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.008359	1000000	11114.7460938		
		<b>External Plating Total:</b>				<b>0.008359</b>	<b>1000000</b>	<b>11114.7460938</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001513	1000000	2011.71032715		
<b>Internal Plating Total:</b>				<b>0.001513</b>	<b>1000000</b>	<b>2011.71032715</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001574	750000	2092.81689453		
		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)		0.000525	250000	698.048828125		
<b>Die Attach Total:</b>				<b>0.002099</b>	<b>1000000</b>	<b>2790.86572266</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.073286	135000	97442.296875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.466860	860000	620744.9375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.002714	5000	3608.58032227		
		<b>Encapsulation Total:</b>				<b>0.542860</b>	<b>1000000</b>	<b>721795.8125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000882	1000000	1172.7220459		
					<b>TOTAL MASS (g) :</b>	<b>0.752096</b>		