

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1140acsw#trpbf

(Engineering Calculation)

SOIC WIDE

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**TOTAL MASS (g) : 0.641905**

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	0.006856	1000000	10680.7001953		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.139415	975000	217189.28125		
		Iron (Fe)	7439-89-6	0.003432	24000	5346.58203125		
		Phosphorus (P)	7723-14-0	0.000043	300	66.9880523682		
		Zinc (Zn)	7440-66-6	0.000100	700	155.78616333		
		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>222758.640625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.007167	1000000	11165.9208984		
		<b>External Plating Total:</b>				<b>0.007167</b>	<b>1000000</b>	<b>11165.9208984</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001144	1000000	1782.19372559		
<b>Internal Plating Total:</b>				<b>0.001144</b>	<b>1000000</b>	<b>1782.19372559</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001682	750000	2620.32348633		
		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)		0.000561	250000	873.960510254		
<b>Die Attach Total:</b>				<b>0.002243</b>	<b>1000000</b>	<b>3494.28417969</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.049522	103000	77148.4296875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.430316	895000	670372.8125		
		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	1498.66296387		
		<b>Encapsulation Total:</b>				<b>0.480800</b>	<b>1000000</b>	<b>749019.9375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000705	1000000	1098.29248047		
					<b>TOTAL MASS (g) :</b>	<b>0.641905</b>		