

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1137acsw#trpbf

(Engineering Calculation)

SOIC WIDE

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**TOTAL MASS (g) : 0.75185**

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	0.006187	1000000	8229.03125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.185240	975000	246378.8125		
		Iron (Fe)	7439-89-6	0.004560	24000	6065.03613281		
		Phosphorus (P)	7723-14-0	0.000057	300	75.8129577637		
		Zinc (Zn)	7440-66-6	0.000133	700	176.896896362		
		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>252696.546875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.008359	1000000	11118.3828125		
		<b>External Plating Total:</b>				<b>0.008359</b>	<b>1000000</b>	<b>11118.3828125</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001513	1000000	2012.36853027		
<b>Internal Plating Total:</b>				<b>0.001513</b>	<b>1000000</b>	<b>2012.36853027</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001544	750000	2053.60009766		
		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)		0.000515	250000	684.976745605		
<b>Die Attach Total:</b>				<b>0.002059</b>	<b>1000000</b>	<b>2738.5769043</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.073286	135000	97474.1796875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.466860	860000	620948		
		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	3609.76074219		
		<b>Encapsulation Total:</b>				<b>0.542860</b>	<b>1000000</b>	<b>722031.9375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000882	1000000	1173.10583496		
					<b>TOTAL MASS (g) :</b>	<b>0.75185</b>		