

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

SSOP

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**TOTAL MASS (g) : 0.149762**

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	0.005123	1000000	34207.5898438		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.040950	975000	273433.6875		
		Iron (Fe)	7439-89-6	0.001008	24000	6730.67529297		
		Phosphorus (P)	7723-14-0	0.000013	300	86.8043441772		
		Zinc (Zn)	7440-66-6	0.000029	700	193.640457153		
		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>0.042000</b>	<b>1000000</b>	<b>280444.8125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002272	1000000	15171.2636719		
		<b>External Plating Total:</b>				<b>0.002272</b>	<b>1000000</b>	<b>15171.2636719</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000336	1000000	2243.55834961		
<b>Internal Plating Total:</b>				<b>0.000336</b>	<b>1000000</b>	<b>2243.55834961</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001330	750000	8880.75195312		
		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)		0.000443	250000	2958.02490234		
<b>Die Attach Total:</b>				<b>0.001773</b>	<b>1000000</b>	<b>11838.7773438</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.013230	135000	88340.109375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.084280	860000	562759.25		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000490	5000	3271.85620117		
		<b>Encapsulation Total:</b>				<b>0.098000</b>	<b>1000000</b>	<b>654371.1875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000258	1000000	1722.73217773		
					<b>TOTAL MASS (g) :</b>	<b>0.149762</b>		