

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1990acs8#trpbf

(Engineering Calculation)

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**TOTAL MASS (g) : 0.073338**

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	0.002001	1000000	27284.6835938		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000083	1000000	1131.74841309		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.014071	580000	191865.4375		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.010189	420000	138932.34375		
		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>0.024260</b>	<b>1000000</b>	<b>330797.78125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	20137.6484375		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>20137.6484375</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2645.29150391		
<b>Internal Plating Total:</b>				<b>0.000194</b>	<b>1000000</b>	<b>2645.29150391</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000689	750000	9394.87597656		
		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)		0.000230	250000	3136.17041016		
<b>Die Attach Total:</b>				<b>0.000919</b>	<b>1000000</b>	<b>12531.0458984</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006633	150000	90444.421875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036260	820000	494424.09375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001105	25000	15067.2529297		
		Carbon Black (C)	1333-86-4	0.000221	5000	3013.45068359		
		<b>Encapsulation Total:</b>				<b>0.044219</b>	<b>1000000</b>	<b>602949.1875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2522.57177734		
					<b>TOTAL MASS (g) :</b>	<b>0.073338</b>		