

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1372hvin8#pbf

(Engineering Calculation)

PDIP

(printed on: 2020-07-11 17:23:25)

**TOTAL MASS (g) : 0.500461**

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	0.003254	1000000	6502.00097656		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.149760	975000	299243.875		
		Iron (Fe)	7439-89-6	0.003686	24000	7365.20410156		
		Phosphorus (P)	7723-14-0	0.000046	300	91.9151916504		
		Zinc (Zn)	7440-66-6	0.000108	700	215.800888062		
		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>0.153600</b>	<b>1000000</b>	<b>306916.84375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24797.7011719		
		<b>External Plating Total:</b>				<b>0.012410</b>	<b>1000000</b>	<b>24797.7011719</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2453.73608398		
<b>Internal Plating Total:</b>				<b>0.001228</b>	<b>1000000</b>	<b>2453.73608398</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000962	750000	1922.22644043		
		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)		0.000321	250000	641.408203125		
<b>Die Attach Total:</b>				<b>0.001283</b>	<b>1000000</b>	<b>2563.63476562</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.044334	135000	88586.265625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.282424	860000	564327.3125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001642	5000	3280.97290039		
		<b>Encapsulation Total:</b>				<b>0.328400</b>	<b>1000000</b>	<b>656194.5</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000286	1000000	571.47265625		
					<b>TOTAL MASS (g) :</b>	<b>0.500461</b>		