

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1tc1153cn8#pbf

(Engineering Calculation)

PDIP

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**TOTAL MASS (g) : 0.499405**

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	0.002522	1000000	5050.00683594		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.149760	975000	299876.65625		
		Iron (Fe)	7439-89-6	0.003686	24000	7380.77832031		
		Phosphorus (P)	7723-14-0	0.000046	300	92.1095581055		
		Zinc (Zn)	7440-66-6	0.000108	700	216.257217407		
		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>307565.84375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24850.1367188		
		<b>External Plating Total:</b>				<b>0.012410</b>	<b>1000000</b>	<b>24850.1367188</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2458.92456055		
<b>Internal Plating Total:</b>				<b>0.001228</b>	<b>1000000</b>	<b>2458.92456055</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000807	750000	1615.92199707		
		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)		0.000269	250000	538.640686035		
<b>Die Attach Total:</b>				<b>0.001076</b>	<b>1000000</b>	<b>2154.56274414</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.044334	135000	88773.59375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.282424	860000	565520.625		
		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	3287.91064453		
		<b>Encapsulation Total:</b>				<b>0.328400</b>	<b>1000000</b>	<b>657582.125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000169	1000000	338.402526855		
					<b>TOTAL MASS (g) :</b>	<b>0.499405</b>		