

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1166cn8#pbf

(Engineering Calculation)

PDIP

(printed on: 2020-07-11 19:03:24)

**TOTAL MASS (g) : 0.498707**

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	0.001980	1000000	3970.2644043		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.149760	975000	300296.375		
		Iron (Fe)	7439-89-6	0.003686	24000	7391.10888672		
		Phosphorus (P)	7723-14-0	0.000046	300	92.2384796143		
		Zinc (Zn)	7440-66-6	0.000108	700	216.559906006		
		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>307996.3125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24884.9179688		
		<b>External Plating Total:</b>				<b>0.012410</b>	<b>1000000</b>	<b>24884.9179688</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2462.36645508		
<b>Internal Plating Total:</b>				<b>0.001228</b>	<b>1000000</b>	<b>2462.36645508</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000690	750000	1383.57714844		
		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	461.192382812		
<b>Die Attach Total:</b>				<b>0.000920</b>	<b>1000000</b>	<b>1844.76953125</b>		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.078816	240000	158040.59375		
		Bromine (Br)	40039-93-8	0.003284	10000	6585.02539062		
		Silica (SiO2)	60676-86-0	0.236448	720000	474121.8125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.009852	30000	19755.0742188		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		<b>Encapsulation Total:</b>				<b>0.328400</b>	<b>1000000</b>	<b>658502.4375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000169	1000000	338.876159668		
					<b>TOTAL MASS (g) :</b>	<b>0.498707</b>		