

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t3845en#pbf

(Engineering Calculation)

PDIP

(printed on: 2020-07-11 20:35:07)

**TOTAL MASS (g) : 1.024872**

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	0.006421	1000000	6265.17236328		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.313072	975000	305474.21875		
		Iron (Fe)	7439-89-6	0.007706	24000	7518.98730469		
		Phosphorus (P)	7723-14-0	0.000096	300	93.6702346802		
		Zinc (Zn)	7440-66-6	0.000225	700	219.539596558		
		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>0.321099</b>	<b>1000000</b>	<b>313306.40625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.024547	1000000	23951.2675781		
		<b>External Plating Total:</b>				<b>0.024547</b>	<b>1000000</b>	<b>23951.2675781</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002569	1000000	2506.65429688		
<b>Internal Plating Total:</b>				<b>0.002569</b>	<b>1000000</b>	<b>2506.65429688</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001549	750000	1511.40820312		
		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)		0.000516	250000	503.477478027		
<b>Die Attach Total:</b>				<b>0.002065</b>	<b>1000000</b>	<b>2014.88537598</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.090126	135000	87938.78125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.574136	860000	560202.625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.003338	5000	3256.99194336		
		<b>Encapsulation Total:</b>				<b>0.667600</b>	<b>1000000</b>	<b>651398.375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000571	1000000	557.142700195		
					<b>TOTAL MASS (g) :</b>	<b>1.024872</b>		