

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1158in#pbf

(Engineering Calculation)

PDIP

(printed on: 2020-07-11 17:15:09)

**TOTAL MASS (g) : 1.023701**

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	0.005475	1000000	5348.24121094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.313072	975000	305823.6875		
		Iron (Fe)	7439-89-6	0.007706	24000	7527.58886719		
		Phosphorus (P)	7723-14-0	0.000096	300	93.7773895264		
		Zinc (Zn)	7440-66-6	0.000225	700	219.790740967		
		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>313664.84375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.024547	1000000	23978.6679688		
		<b>External Plating Total:</b>				<b>0.024547</b>	<b>1000000</b>	<b>23978.6679688</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002569	1000000	2509.52197266		
<b>Internal Plating Total:</b>				<b>0.002569</b>	<b>1000000</b>	<b>2509.52197266</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001380	750000	1348.04992676		
		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)		0.000460	250000	449.349975586		
<b>Die Attach Total:</b>				<b>0.001840</b>	<b>1000000</b>	<b>1797.39990234</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.090126	135000	88039.3828125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.574136	860000	560843.4375		
		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	3260.71801758		
		<b>Encapsulation Total:</b>				<b>0.667600</b>	<b>1000000</b>	<b>652143.5625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000571	1000000	557.780090332		
					<b>TOTAL MASS (g) :</b>	<b>1.023701</b>		