

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

PDIP

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**TOTAL MASS (g) : 0.499538**

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	0.002630	1000000	5264.86181641		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.149760	975000	299796.84375		
		Iron (Fe)	7439-89-6	0.003686	24000	7378.81396484		
		Phosphorus (P)	7723-14-0	0.000046	300	92.0850372314		
		Zinc (Zn)	7440-66-6	0.000108	700	216.199645996		
		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>307483.96875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24843.5234375		
		<b>External Plating Total:</b>				<b>0.012410</b>	<b>1000000</b>	<b>24843.5234375</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2458.27026367		
<b>Internal Plating Total:</b>				<b>0.001228</b>	<b>1000000</b>	<b>2458.27026367</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000826	750000	1653.52685547		
		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)		0.000275	250000	550.508361816		
<b>Die Attach Total:</b>				<b>0.001101</b>	<b>1000000</b>	<b>2204.03540039</b>		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.078816	240000	157777.703125		
		Bromine (Br)	40039-93-8	0.003284	10000	6574.07080078		
		Silica (SiO2)	60676-86-0	0.236448	720000	473333.125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.009852	30000	19722.2128906		
		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>657407.0625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000169	1000000	338.312438965		
					<b>TOTAL MASS (g) :</b>	<b>0.499538</b>		