

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1640ahin8#pbf

(Engineering Calculation)

PDIP

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**TOTAL MASS (g) : 0.500051**

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	0.002993	1000000	5985.38574219		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000167	1000000	333.96572876		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.089088	580000	178157.71875		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.064512	420000	129010.75		
		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>307168.46875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24818.0332031		
		<b>External Plating Total:</b>				<b>0.012410</b>	<b>1000000</b>	<b>24818.0332031</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2455.74780273		
<b>Internal Plating Total:</b>				<b>0.001228</b>	<b>1000000</b>	<b>2455.74780273</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000905	750000	1809.81420898		
		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)		0.000302	250000	603.937988281		
<b>Die Attach Total:</b>				<b>0.001207</b>	<b>1000000</b>	<b>2413.75219727</b>		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.078758	240000	157499.828125		
		Bromine (Br)	40039-93-8	0.003282	10000	6563.32617188		
		Silica (SiO2)	60676-86-0	0.236275	720000	472501.53125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.009845	30000	19687.9785156		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		<b>Encapsulation Total:</b>				<b>0.328160</b>	<b>1000000</b>	<b>656252.625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000286	1000000	571.94128418		
					<b>TOTAL MASS (g) :</b>	<b>0.500051</b>		