

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1336in#pbf

(Engineering Calculation)

PDIP

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**TOTAL MASS (g) : 1.021646**

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	0.003825	1000000	3743.95825195		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.313072	975000	306438.8125		
		Iron (Fe)	7439-89-6	0.007706	24000	7542.72998047		
		Phosphorus (P)	7723-14-0	0.000096	300	93.9660110474		
		Zinc (Zn)	7440-66-6	0.000225	700	220.232833862		
		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>314295.78125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.024547	1000000	24026.8984375		
		<b>External Plating Total:</b>				<b>0.024547</b>	<b>1000000</b>	<b>24026.8984375</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002569	1000000	2514.56958008		
<b>Internal Plating Total:</b>				<b>0.002569</b>	<b>1000000</b>	<b>2514.56958008</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001076	750000	1053.20239258		
		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)		0.000359	250000	351.393707275		
<b>Die Attach Total:</b>				<b>0.001435</b>	<b>1000000</b>	<b>1404.59606934</b>		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.160224	240000	156829.28125		
		Bromine (Br)	40039-93-8	0.006676	10000	6534.55322266		
		Silica (SiO2)	60676-86-0	0.480672	720000	470487.8125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.020028	30000	19603.6601562		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		<b>Encapsulation Total:</b>				<b>0.667600</b>	<b>1000000</b>	<b>653455.25</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000571	1000000	558.901977539		
					<b>TOTAL MASS (g) :</b>	<b>1.021646</b>		