

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1442in8#pbf

(Engineering Calculation)

PDIP

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**TOTAL MASS (g) : 0.49929**

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	0.002434	1000000	4874.91943359		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.149760	975000	299945.75		
		Iron (Fe)	7439-89-6	0.003686	24000	7382.47851562		
		Phosphorus (P)	7723-14-0	0.000046	300	92.1307754517		
		Zinc (Zn)	7440-66-6	0.000108	700	216.307037354		
		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>307636.6875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24855.8613281		
		<b>External Plating Total:</b>				<b>0.012410</b>	<b>1000000</b>	<b>24855.8613281</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2459.49121094		
<b>Internal Plating Total:</b>				<b>0.001228</b>	<b>1000000</b>	<b>2459.49121094</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000787	750000	1576.23742676		
		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)		0.000262	250000	524.744812012		
<b>Die Attach Total:</b>				<b>0.001049</b>	<b>1000000</b>	<b>2100.98193359</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.044334	135000	88794.0390625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.282424	860000	565650.875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001642	5000	3288.66821289		
		<b>Encapsulation Total:</b>				<b>0.328400</b>	<b>1000000</b>	<b>657733.5625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000169	1000000	338.48046875		
					<b>TOTAL MASS (g) :</b>	<b>0.49929</b>		