

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1148cn-5#pbf

(Engineering Calculation)

PDIP

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**TOTAL MASS (g) : 0.986971**

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	0.003629	1000000	3676.90722656		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.284310	975000	288063.25		
		Iron (Fe)	7439-89-6	0.006998	24000	7090.38232422		
		Phosphorus (P)	7723-14-0	0.000087	300	88.1485061646		
		Zinc (Zn)	7440-66-6	0.000204	700	206.69303894		
		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>0.291599</b>	<b>1000000</b>	<b>295448.46875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.021727	1000000	22013.5820312		
		<b>External Plating Total:</b>				<b>0.021727</b>	<b>1000000</b>	<b>22013.5820312</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002333	1000000	2363.79833984		
<b>Internal Plating Total:</b>				<b>0.002333</b>	<b>1000000</b>	<b>2363.79833984</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001040	750000	1053.72937012		
		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)		0.000347	250000	351.580810547		
<b>Die Attach Total:</b>				<b>0.001387</b>	<b>1000000</b>	<b>1405.31005859</b>		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.159840	240000	161950.078125		
		Bromine (Br)	40039-93-8	0.006660	10000	6747.91992188		
		Silica (SiO2)	60676-86-0	0.479520	720000	485850.25		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.019980	30000	20243.7597656		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		<b>Encapsulation Total:</b>				<b>0.666000</b>	<b>1000000</b>	<b>674792</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000296	1000000	299.907592773		
					<b>TOTAL MASS (g) :</b>	<b>0.986971</b>		