

## LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC1068CN#PBF

(Engineering Calculation)

FDP

(printed on: 2014-01-19 22:56:04)

TOTAL MASS (g): 1.585983

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	0.00028	1000000	3674.69262095		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.45837	975000	28004.96875		
		Iron (Fe)	7439-89-6	0.011283	24000	714.19921875		
		Phosphorus (P)	7723-14-0	0.000141	300	88.9038467407		
		Zinc (Zn)	7440-66-6	0.000129	700	207.442121777		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-96-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		<b>Lead Frame Total:</b>			<b>0.470110</b>	<b>1000000</b>	<b>296415.53125</b>	
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.037246	1000000	23484.4980469		
<b>External Plating Total:</b>					<b>0.037246</b>	<b>1000000</b>	<b>23484.4980469</b>	
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.003761	1000000	2371.39990234		
<b>Internal Plating Total:</b>					<b>0.003761</b>	<b>1000000</b>	<b>2371.39990234</b>	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001486	750000	936.958374023		
		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)		0.000495	250000	312.10925293		
		<b>Die Attach Total:</b>			<b>0.001981</b>	<b>1000000</b>	<b>1249.06762095</b>	
		Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.141937	135000	90755.703125
				Bromine (Br)	40039-03-8	0.007463	7000	4765.5966281
Silica (SiO2)	60676-86-0			0.895608	840000	564702.125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.013861	13000	8739.68945312		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.005331	5000	3361.32226562		
<b>Encapsulation Total:</b>					<b>1.066200</b>	<b>1000000</b>	<b>67264.4375</b>	
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000857	1000000	540.358886719

TOTAL MASS (g):

1.585983