LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1099cn#pbf **(Engineering Calculation)** **PDIP**

(printed on: 2020-07-11 19:27:44) **TOTAL MASS (g): 1.364948**

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	**0.007671**	**1000000**	**5619.99609375**
Die Coat	Dow Corning	Silicone	69430-27-9	**0.000000**	**0**	**0**
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.386100	975000	282868
		Iron (Fe)	7439-89-6	0.009504	24000	6962.90478516
		Phosphorus (P)	7723-14-0	0.000119	300	87.1828308105
		Zinc (Zn)	7440-66-6	0.000277	700	202.938217163
		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
		Lead Frame Total:		**0.396000**	**1000000**	**290121.0625**
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.031039	1000000	22739.7070312
		External Plating Total:		**0.031039**	**1000000**	**22739.7070312**
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.003168	1000000	2320.96826172
		Internal Plating Total:		**0.003168**	**1000000**	**2320.96826172**
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001767	750000	1294.55517578
		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)		0.000589	250000	431.518432617
		Die Attach Total:		**0.002356**	**1000000**	**1726.07373047**
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.124740	135000	91388.125
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.794640	860000	582176.1875
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.004620	5000	3384.74511719
		Encapsulation Total:		**0.924000**	**1000000**	**676949.0625**
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	**0.000714**	**1000000**	**523.097045898**
					TOTAL MASS (g):	**1.364948**