

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc2752bilx#pbf

(Engineering Calculation)

LQFP 7mm X 7mm

(printed on: 2020-07-11 22:05:20)

**TOTAL MASS (g) : 0.145387**

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	0.008916	1000000	61326.03125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.048877	975000	336185.78125		
		Iron (Fe)	7439-89-6	0.001203	24000	8274.47460938		
		Phosphorus (P)	7723-14-0	0.000015	300	103.172996521		
		Zinc (Zn)	7440-66-6	0.000035	700	240.736999512		
		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>0.050130</b>	<b>1000000</b>	<b>344804.15625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.005224	1000000	35930.9648438		
		<b>External Plating Total:</b>				<b>0.005224</b>	<b>1148461</b>	<b>35930.9648438</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000520	1000000	3576.6640625		
<b>Internal Plating Total:</b>				<b>0.000520</b>	<b>1000000</b>	<b>3576.6640625</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001980	750000	13618.8349609		
		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)		0.000660	250000	4539.61230469		
<b>Die Attach Total:</b>				<b>0.002640</b>	<b>1000000</b>	<b>18158.4492188</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.010392	135000	71478.2578125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.066203	860000	455357.46875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000385	5000	2648.10693359		
		<b>Encapsulation Total:</b>				<b>0.076980</b>	<b>1000000</b>	<b>529483.875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000977	1000000	6720.00146484		
					<b>TOTAL MASS (g) :</b>	<b>0.145387</b>		