

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t3797ilxe#pbf

(Engineering Calculation)

eLQFP 7mm X 7mm Exp. Pad

(printed on: 2020-07-11 20:34:52)

**TOTAL MASS (g) : 0.143729**

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	0.007721	1000000	53719.1953125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.048877	975000	340063.875		
		Iron (Fe)	7439-89-6	0.001203	24000	8369.92578125		
		Phosphorus (P)	7723-14-0	0.000015	300	104.36315918		
		Zinc (Zn)	7440-66-6	0.000035	700	243.514053345		
		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>348781.6875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.005224	1000000	36345.4492188		
		<b>External Plating Total:</b>				<b>0.005224</b>	<b>1000000</b>	<b>36345.4492188</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000520	1000000	3617.92285156		
<b>Internal Plating Total:</b>				<b>0.000520</b>	<b>1000000</b>	<b>3617.92285156</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001779	750000	12377.4707031		
		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)		0.000593	250000	4125.82324219		
<b>Die Attach Total:</b>				<b>0.002372</b>	<b>1000000</b>	<b>16503.2929688</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.007929	103000	55166.3671875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.068897	895000	479353.90625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000154	2000	1071.46166992		
		<b>Encapsulation Total:</b>				<b>0.076980</b>	<b>1000000</b>	<b>535591.75</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000782	1000000	5440.79931641		
					<b>TOTAL MASS (g) :</b>	<b>0.143729</b>		