

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc2107iuk#pbf

(Engineering Calculation)

QFN 7mm X 7mm Exp. Pad

(printed on: 2020-07-11 21:48:04)

**TOTAL MASS (g) : 0.136509**

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	0.008775	1000000	64281.4492188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.057847	975000	423759.4375		
		Iron (Fe)	7439-89-6	0.001424	24000	10431.5419922		
		Phosphorus (P)	7723-14-0	0.000018	300	131.859390259		
		Zinc (Zn)	7440-66-6	0.000042	700	307.671875		
		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>0.059331</b>	<b>1000000</b>	<b>434630.46875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002894	1000000	21200.5117188		
		<b>External Plating Total:</b>				<b>0.002894</b>	<b>1000000</b>	<b>21200.5117188</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001274	1000000	9332.71386719		
<b>Internal Plating Total:</b>				<b>0.001274</b>	<b>1000000</b>	<b>9332.71386719</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.002664	750000	19515.1875		
		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)		0.000888	250000	6505.06298828		
<b>Die Attach Total:</b>				<b>0.003552</b>	<b>1000000</b>	<b>26020.2519531</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.007847	130000	57483.3632812		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.051910	860000	380267.8125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000604	10000	4424.61474609		
		<b>Encapsulation Total:</b>				<b>0.060361</b>	<b>1000000</b>	<b>442175.78125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000322	1000000	2358.81762695		
					<b>TOTAL MASS (g) :</b>	<b>0.136509</b>		