

## LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3611EWP#PBF

(Engineering Calculation)

QFN MultiPad 9 X 9 X 0.9 mm

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TOTAL MASS (g): 0.269546

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	0.002566	1000000	9515.70117188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.104491	975000	387655.15625		
		Iron (Fe)	7439-89-6	0.002572	24000	9541.9609375		
		Phosphorus (P)	7723-14-0	0.000032	300	118.718025208		
		Zinc (Zn)	7440-66-6	0.000075	700	278.245361328		
		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>0.107176</b>	<b>1000000</b>	<b>397594.0625</b>	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003192	1000000	11843.1328125		
			<b>External Plating Total:</b>	<b>0.003192</b>	<b>1000000</b>	<b>11843.1328125</b>		
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002279	1000000	8454.94824219		
			<b>Internal Plating Total:</b>	<b>0.002279</b>	<b>1000000</b>	<b>8454.94824219</b>		
Die Attach	95Sn / 5Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.001805	950000	6696.43847656		
		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	0.000095	50000	352.444122314		
		Resin (EP)		0.000000	0	0		
			<b>Die Attach Total:</b>	<b>0.001900</b>	<b>1000000</b>	<b>7048.88232422</b>		
		Encapsulation	MULTI-AROMATIC RESIN (BIS) FREE	Resin (EP)		0.019486	130000	72291.859375
				Bromine (Br)	40039-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.128910	860000	478248.15625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.001499	10000	5561.19726562		
	<b>Encapsulation Total:</b>			<b>0.149895</b>	<b>1000000</b>	<b>556101.1875</b>		
Bond Wire Estimated	AFW/TANAKA/Ko	Gold (Au)	7440-57-5	0.002544	1000000	9438.08300781		
<b>TOTAL MASS (g):</b>						<b>0.269546</b>		