

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc3104ide#pbf

(Engineering Calculation)

DFN 4mm X 3mm Exp. Pad

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**TOTAL MASS (g) : 0.030452**

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	0.000874	1000000	28701.1269531		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	431272.1875		
		Iron (Fe)	7439-89-6	0.000323	24000	10606.9375		
		Phosphorus (P)	7723-14-0	0.000004	300	131.355270386		
		Zinc (Zn)	7440-66-6	0.000009	700	295.549377441		
		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>0.013469</b>	<b>1000000</b>	<b>442306.03125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000626	1000000	20549.5039062		
		<b>External Plating Total:</b>				<b>0.000626</b>	<b>1000000</b>	<b>20549.5039062</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	9917.32226562		
		<b>Internal Plating Total:</b>				<b>0.000302</b>	<b>1000000</b>	<b>9917.32226562</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000521	750000	17109.0234375		
		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)		0.000174	250000	5713.95410156		
<b>Die Attach Total:</b>				<b>0.000695</b>	<b>1000000</b>	<b>22822.9785156</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001876	130000	61605.6171875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.012410	860000	407529.71875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000144	10000	4728.79003906		
		<b>Encapsulation Total:</b>				<b>0.014430</b>	<b>1000000</b>	<b>473864.125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000056	1000000	1838.97375488		
					<b>TOTAL MASS (g) :</b>	<b>0.030452</b>		