

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc2802ide#trpbf

(Engineering Calculation)

DFN 4mm X 3mm Exp. Pad

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**TOTAL MASS (g) : 0.031114**

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	0.001529	1000000	49142.125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.012783	975000	410846.1875		
		Iron (Fe)	7439-89-6	0.000315	24000	10124.1142578		
		Phosphorus (P)	7723-14-0	0.000004	300	128.560180664		
		Zinc (Zn)	7440-66-6	0.000009	700	289.260406494		
		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>0.013111</b>	<b>1000000</b>	<b>421388.09375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000607	1000000	19503.6914062		
		<b>External Plating Total:</b>				<b>0.000607</b>	<b>1000000</b>	<b>19503.6914062</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000295	1000000	9481.3125		
<b>Internal Plating Total:</b>				<b>0.000295</b>	<b>1000000</b>	<b>9481.3125</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000753	750000	24201.4511719		
		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)		0.000251	250000	8067.15039062		
<b>Die Attach Total:</b>				<b>0.001004</b>	<b>1000000</b>	<b>32268.6015625</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001888	130000	60680.40625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.012487	860000	401332.71875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000145	10000	4660.30615234		
		<b>Encapsulation Total:</b>				<b>0.014520</b>	<b>1000000</b>	<b>466673.40625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000048	1000000	1542.72216797		
					<b>TOTAL MASS (g) :</b>	<b>0.031114</b>		