

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2601CDD#TRPBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.023095

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	0.001091	1000000	47238.521875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	420474.0625		
		Iron (Fe)	7439-89-6	0.000239	24000	10348.3984375		
		Phosphorus (P)	7723-14-0	0.000003	300	129.896209717		
		Zinc (Zn)	7440-66-6	0.000007	700	303.091156006		
		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>0.009960</b>	<b>1000000</b>	<b>431255.4375</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000455	1000000	19716.6289062		
<b>External Plating Total:</b>						<b>0.000455</b>	<b>1000000</b>	<b>19716.6289062</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000225	1000000	9742.21484375		
<b>Internal Plating Total:</b>						<b>0.000225</b>	<b>1000000</b>	<b>9742.21484375</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000611	750000	26542.1269511		
		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)		0.002294	250000	8832.94140625		
		<b>Die Attach Total:</b>				<b>0.000817</b>	<b>1000000</b>	<b>35375.0664062</b>
		Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.001162	130000	58972.8789062
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.009013	860000	390251.53125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000105	10000	4546.36767578		
<b>Encapsulation Total:</b>						<b>0.010480</b>	<b>1000000</b>	<b>45370.75</b>
Band Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000067	1000000	2901.01538086

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