

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t3091ide#trpbf

(Engineering Calculation)

DFN 4mm X 3mm Exposed Pad

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**TOTAL MASS (g) : 0.031831**

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	0.002304	1000000	72382.796875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013123	975000	412274.0625		
		Iron (Fe)	7439-89-6	0.000323	24000	10147.4140625		
		Phosphorus (P)	7723-14-0	0.000004	300	125.664573669		
		Zinc (Zn)	7440-66-6	0.000009	700	282.745300293		
		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>0.013459</b>	<b>1000000</b>	<b>422829.875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000626	1000000	19659.2402344		
		<b>External Plating Total:</b>				<b>0.000626</b>	<b>1000000</b>	<b>19659.2402344</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	9487.67578125		
<b>Internal Plating Total:</b>				<b>0.000302</b>	<b>1000000</b>	<b>9487.67578125</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000505	820000	15865.1523438		
		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)		0.000111	180000	3487.19189453		
<b>Die Attach Total:</b>				<b>0.000616</b>	<b>1000000</b>	<b>19352.34375</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001876	130000	58936.6835938		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.012410	860000	389874.34375		
		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	4523.92480469		
		<b>Encapsulation Total:</b>				<b>0.014430</b>	<b>1000000</b>	<b>453334.96875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000094	1000000	2953.11743164		
					<b>TOTAL MASS (g) :</b>	<b>0.031831</b>		