

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t3021edh-1.5#trpbf

(Engineering Calculation)

DFN 5mm x 5mm Exp. Pad

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**TOTAL MASS (g) : 0.066231**

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	0.003031	1000000	45763.8515625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.028850	975000	435594.53125		
		Iron (Fe)	7439-89-6	0.000710	24000	10720.0039062		
		Phosphorus (P)	7723-14-0	0.000009	300	135.887390137		
		Zinc (Zn)	7440-66-6	0.000021	700	317.070556641		
		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>0.029590</b>	<b>1000000</b>	<b>446767.46875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001415	1000000	21369.2929688		
		<b>External Plating Total:</b>				<b>0.001415</b>	<b>1000000</b>	<b>21369.2929688</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000647	1000000	9768.79199219		
<b>Internal Plating Total:</b>				<b>0.000647</b>	<b>1000000</b>	<b>9768.79199219</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001223	750000	18465.5839844		
		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)		0.000408	250000	6160.22753906		
<b>Die Attach Total:</b>				<b>0.001631</b>	<b>1000000</b>	<b>24625.8125</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.003875	130000	58507.0625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.025637	860000	387082.75		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000298	10000	4499.38183594		
		<b>Encapsulation Total:</b>				<b>0.029810</b>	<b>1000000</b>	<b>450089.1875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000107	1000000	1615.54992676		
					<b>TOTAL MASS (g) :</b>	<b>0.066231</b>		