

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

DFN 2mm X 3mm Exp. Pad

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**TOTAL MASS (g) : 0.015322**

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	0.000763	1000000	49796.5625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.005723	975000	373506.875		
		Iron (Fe)	7439-89-6	0.000141	24000	9202.24804688		
		Phosphorus (P)	7723-14-0	0.000002	300	130.52835083		
		Zinc (Zn)	7440-66-6	0.000004	700	261.05670166		
		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>0.005870</b>	<b>1000000</b>	<b>383100.6875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000260	1000000	16991.0371094		
		<b>External Plating Total:</b>				<b>0.000260</b>	<b>1000000</b>	<b>16991.0371094</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000136	1000000	8875.92773438		
		<b>Internal Plating Total:</b>				<b>0.000136</b>	<b>1000000</b>	<b>8875.92773438</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000488	750000	31848.9140625		
		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)		0.000163	250000	10638.0595703		
<b>Die Attach Total:</b>				<b>0.000651</b>	<b>1000000</b>	<b>42486.9765625</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000989	130000	64546.265625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.006545	860000	427154		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000076	10000	4960.07666016		
		<b>Encapsulation Total:</b>				<b>0.007610</b>	<b>1000000</b>	<b>496660.34375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000032	1000000	2088.45361328		
					<b>TOTAL MASS (g) :</b>	<b>0.015322</b>		