

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

DFN 4mm X 3mm Exposed Pad

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**TOTAL MASS (g) : 0.032534**

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	0.002278	1000000	70019.5546875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013123	975000	403365.5		
		Iron (Fe)	7439-89-6	0.000323	24000	9928.14550781		
		Phosphorus (P)	7723-14-0	0.000004	300	122.949172974		
		Zinc (Zn)	7440-66-6	0.000009	700	276.635650635		
		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>413693.21875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000626	1000000	19234.4375		
		<b>External Plating Total:</b>				<b>0.000626</b>	<b>1000000</b>	<b>19234.4375</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	9282.66210938		
<b>Internal Plating Total:</b>				<b>0.000302</b>	<b>1000000</b>	<b>9282.66210938</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001009	750000	31013.9296875		
		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)		0.000336	250000	10327.7304688		
<b>Die Attach Total:</b>				<b>0.001345</b>	<b>1000000</b>	<b>41341.6601562</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001876	130000	57663.1601562		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.012410	860000	381449.8125		
		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	4426.17041016		
		<b>Encapsulation Total:</b>				<b>0.014430</b>	<b>1000000</b>	<b>443539.1875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000094	1000000	2889.30566406		
					<b>TOTAL MASS (g) :</b>	<b>0.032534</b>		