

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

DFN 5mm X 3mm Exp. Pad

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**TOTAL MASS (g) : 0.03693**

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	0.000567	1000000	15353.3720703		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.017069	974800.0625	462198.78125		
		Iron (Fe)	7439-89-6	0.000411	23500	11129.1630859		
		Phosphorus (P)	7723-14-0	0.000015	850	406.173858643		
		Zinc (Zn)	7440-66-6	0.000015	850	406.173858643		
		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>0.017510</b>	<b>1000000</b>	<b>474140.28125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000817	1000000	22122.9921875		
		<b>External Plating Total:</b>				<b>0.000817</b>	<b>1000000</b>	<b>22122.9921875</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000391	1000000	10587.5996094		
<b>Internal Plating Total:</b>				<b>0.000391</b>	<b>1000000</b>	<b>10587.5996094</b>		
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000005	50000	135.391281128		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000027	300000	731.112976074		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000059	650000	1597.6171875		
<b>Die Attach Total:</b>				<b>0.000091</b>	<b>1000000</b>	<b>2464.12133789</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002274	130000	61575.9609375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.015041	860000	407284.09375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000175	10000	4738.69482422		
		<b>Encapsulation Total:</b>				<b>0.017490</b>	<b>1000000</b>	<b>473598.71875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000064	1000000	1733.00842285		
					<b>TOTAL MASS (g) :</b>	<b>0.03693</b>		