

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

(printed on: 2020-07-11 16:30:30)

**TOTAL MASS (g) : 0.023252**

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	0.001208	1000000	51951.7109375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	417635		
		Iron (Fe)	7439-89-6	0.000239	24000	10278.5253906		
		Phosphorus (P)	7723-14-0	0.000003	300	129.019165039		
		Zinc (Zn)	7440-66-6	0.000007	700	301.044708252		
		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>0.009960</b>	<b>1000000</b>	<b>428343.59375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000455	1000000	19583.5019531		
		<b>External Plating Total:</b>				<b>0.000455</b>	<b>1000000</b>	<b>19583.5019531</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000225	1000000	9676.43554688		
<b>Internal Plating Total:</b>				<b>0.000225</b>	<b>1000000</b>	<b>9676.43554688</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000643	750000	27653.1035156		
		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)		0.000214	250000	9203.36621094		
<b>Die Attach Total:</b>				<b>0.000857</b>	<b>1000000</b>	<b>36856.46875</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001362	130000	58574.6953125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.009013	860000	387616.5		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000105	10000	4515.67041016		
		<b>Encapsulation Total:</b>				<b>0.010480</b>	<b>1000000</b>	<b>450706.875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000067	1000000	2881.42773438		
					<b>TOTAL MASS (g) :</b>	<b>0.023252</b>		