

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t3060edc-1.8#trpbf

(Engineering Calculation)

DFN 2mm X 2mm Exp. Pad

(printed on: 2020-07-11 19:10:14)

**TOTAL MASS (g) : 0.009184**

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	0.000523	1000000	56944.8515625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.002935	975000	319566.21875		
		Iron (Fe)	7439-89-6	0.000072	24000	7839.44433594		
		Phosphorus (P)	7723-14-0	0.000001	300	108.881164551		
		Zinc (Zn)	7440-66-6	0.000002	700	217.762329102		
		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>0.003010</b>	<b>1000000</b>	<b>327732.3125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000136	1000000	14843.203125		
		<b>External Plating Total:</b>				<b>0.000136</b>	<b>1000000</b>	<b>14843.203125</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000072	1000000	7839.44433594		
		<b>Internal Plating Total:</b>				<b>0.000072</b>	<b>1000000</b>	<b>7839.44433594</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000161	800000	17529.8671875		
		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)		0.000040	200000	4355.24609375		
<b>Die Attach Total:</b>				<b>0.000201</b>	<b>1000000</b>	<b>21885.1132812</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000677	130000	73712.5390625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.004481	860000	487896.46875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000052	10000	5661.8203125		
		<b>Encapsulation Total:</b>				<b>0.005210</b>	<b>1000000</b>	<b>567270.875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000032	1000000	3484.19726562		
					<b>TOTAL MASS (g) :</b>	<b>0.009184</b>		