

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t3570iuf#pbf

(Engineering Calculation)

QFN 4mm X 4mm Exp. Pad

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**TOTAL MASS (g) : 0.04029**

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	0.001509	1000000	37453.9179688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.015961	975000	396157.78125		
		Iron (Fe)	7439-89-6	0.000393	24000	9754.40039062		
		Phosphorus (P)	7723-14-0	0.000005	300	124.101791382		
		Zinc (Zn)	7440-66-6	0.000011	700	273.023925781		
		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>0.016370</b>	<b>1000000</b>	<b>406309.28125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000773	1000000	19173.9042969		
		<b>External Plating Total:</b>				<b>0.000773</b>	<b>1000000</b>	<b>19173.9042969</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000362	1000000	8984.96972656		
<b>Internal Plating Total:</b>				<b>0.000362</b>	<b>1000000</b>	<b>8984.96972656</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000746	750000	18515.9882812		
		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)		0.000249	250000	6180.26953125		
<b>Die Attach Total:</b>				<b>0.000995</b>	<b>1000000</b>	<b>24696.2578125</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002616	130000	64930.0585938		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.017303	860000	429466.625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000201	10000	4988.89208984		
		<b>Encapsulation Total:</b>				<b>0.020120</b>	<b>1000000</b>	<b>499385.625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000161	1000000	3996.07788086		
					<b>TOTAL MASS (g) :</b>	<b>0.04029</b>		