

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t8612eude#pbf

(Engineering Calculation)

QFN 3mm X 6mm Exp. Pad

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**TOTAL MASS (g) : 0.164105**

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	0.003177	1000000	19359.5839844		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	80028.140625		
		Iron (Fe)	7439-89-6	0.000323	24000	1968.2545166		
		Phosphorus (P)	7723-14-0	0.000004	300	24.3746700287		
		Zinc (Zn)	7440-66-6	0.000009	700	54.8430137634		
		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>0.013469</b>	<b>1000000</b>	<b>82075.6171875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000626	1000000	3813.22705078		
		<b>External Plating Total:</b>				<b>0.000626</b>	<b>1000000</b>	<b>3813.22705078</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	1840.28771973		
<b>Internal Plating Total:</b>				<b>0.000302</b>	<b>1000000</b>	<b>1840.28771973</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001321	750000	8049.73583984		
		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)		0.000440	250000	2681.21386719		
<b>Die Attach Total:</b>				<b>0.001761</b>	<b>1000000</b>	<b>10730.9492188</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.018759	130000	114311.117188		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.124098	860000	756212		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001443	10000	8793.16308594		
		<b>Encapsulation Total:</b>				<b>0.144300</b>	<b>1000000</b>	<b>879316.25</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000470	1000000	2864.02392578		
					<b>TOTAL MASS (g) :</b>	<b>0.164105</b>		