

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t3095mpudd#pbf

(Engineering Calculation)

QFN 3mm X 5mm Exp. Pad

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**TOTAL MASS (g) : 0.162494**

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	0.002229	1000000	13717.4482422		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	80821.5546875		
		Iron (Fe)	7439-89-6	0.000323	24000	1987.76831055		
		Phosphorus (P)	7723-14-0	0.000004	300	24.6163272858		
		Zinc (Zn)	7440-66-6	0.000009	700	55.3867340088		
		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>82889.328125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000626	1000000	3851.03198242		
		<b>External Plating Total:</b>				<b>0.000626</b>	<b>1000000</b>	<b>3851.03198242</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	1858.53271484		
		<b>Internal Plating Total:</b>				<b>0.000302</b>	<b>1000000</b>	<b>1858.53271484</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000997	750000	6135.61962891		
		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)		0.000332	250000	2043.1550293		
<b>Die Attach Total:</b>				<b>0.001329</b>	<b>1000000</b>	<b>8178.77441406</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.018759	130000	115444.414062		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.124098	860000	763709.25		
		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	8880.34082031		
		<b>Encapsulation Total:</b>				<b>0.144300</b>	<b>1000000</b>	<b>888034</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000239	1000000	1470.82556152		
					<b>TOTAL MASS (g) :</b>	<b>0.162494</b>		