

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

QFN 5mm X 6mm Exp. Pad

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**TOTAL MASS (g) : 0.07897**

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	0.002269	1000000	28732.2519531		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.034391	975000	435491.8125		
		Iron (Fe)	7439-89-6	0.000847	24000	10725.5253906		
		Phosphorus (P)	7723-14-0	0.000011	300	139.292526245		
		Zinc (Zn)	7440-66-6	0.000025	700	316.573944092		
		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>0.035274</b>	<b>1000000</b>	<b>446673.15625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001696	1000000	21482.5351562		
		<b>External Plating Total:</b>				<b>0.001696</b>	<b>1000000</b>	<b>21482.5351562</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000765	1000000	9687.16308594		
<b>Internal Plating Total:</b>				<b>0.000765</b>	<b>1000000</b>	<b>9687.16308594</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000986	750000	12485.6777344		
		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)		0.000329	250000	4166.11328125		
<b>Die Attach Total:</b>				<b>0.001315</b>	<b>1000000</b>	<b>16651.7890625</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004876	130000	61744.5820312		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.032257	860000	408469.0625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000375	10000	4748.609375		
		<b>Encapsulation Total:</b>				<b>0.037508</b>	<b>1000000</b>	<b>474962.21875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000143	1000000	1810.80297852		
					<b>TOTAL MASS (g) :</b>	<b>0.07897</b>		