

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

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**TOTAL MASS (g) : 0.07556**

COMPONENT MATERIAL	VENDOR/ INDUSTRY NAMES	CONSTITUENT NAME	CAS NUMBER	CONSTITUENT MASS (g)	CONSTITUENT (PPM) OF MATERIAL	CONSTITUENT (PPM) OF TOTAL PKG.		
<b>Active Device</b>	Linear Technology	Silicon (Si)	7440-21-3	0.003675	1000000	48636.9375		
<b>Die Coat</b>	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
<b>Lead Frame</b>	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.014071	580000	186223.21875		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.010189	420000	134846.734375		
		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>0.024260</b>	<b>1000000</b>	<b>321069.96875</b>		
<b>Plating</b>	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19545.4589844		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>19545.4589844</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2567.50073242		
<b>Internal Plating Total:</b>				<b>0.000194</b>	<b>1000000</b>	<b>2567.50073242</b>		
<b>Die Attach</b>	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001041	750000	13777.1572266		
		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)		0.000347	250000	4592.38574219		
<b>Die Attach Total:</b>				<b>0.001388</b>	<b>1000000</b>	<b>18369.5429688</b>		
<b>Encapsulation</b>	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006657	150000	88102.34375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036392	820000	481631.4375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001110	25000	14690.3398438		
		Carbon Black (C)	1333-86-4	0.000222	5000	2938.06835938		
		<b>Encapsulation Total:</b>				<b>0.044381</b>	<b>1000000</b>	<b>587362.1875</b>
<b>Bond Wire Estimated</b>	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2448.38989258		
					<b>TOTAL MASS (g) :</b>	<b>0.07556</b>		