

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

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(printed on: 2020-07-11 17:14:56)

**TOTAL MASS (g) : 0.151272**

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	0.003336	1000000	22053.0351562		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000139	1000000	918.876403809		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.027683	580000	183001.828125		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.020047	420000	132523.140625		
		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>0.047730</b>	<b>1000000</b>	<b>315524.96875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002954	1000000	19525.8203125		
		<b>External Plating Total:</b>				<b>0.002954</b>	<b>1000000</b>	<b>19525.8203125</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000382	1000000	2525.25732422		
<b>Internal Plating Total:</b>				<b>0.000382</b>	<b>1000000</b>	<b>2525.25732422</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000972	750000	6425.52441406		
		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)		0.000324	250000	2141.84155273		
<b>Die Attach Total:</b>				<b>0.001296</b>	<b>1000000</b>	<b>8567.36621094</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.012354	130000	81667.6171875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.078877	830000	521426.03125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.003326	35000	21986.9277344		
		Carbon Black (C)	1333-86-4	0.000475	5000	3140.04541016		
		<b>Encapsulation Total:</b>				<b>0.095032</b>	<b>1000000</b>	<b>628220.625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000403	1000000	2664.08056641		
					<b>TOTAL MASS (g) :</b>	<b>0.151272</b>		