

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

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(printed on: 2020-07-11 20:04:07)

**TOTAL MASS (g) : 0.074311**

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	0.004619	1000000	62157.8085938		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000192	1000000	2583.7409668		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.012824	580000	172572.359375		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.009286	420000	124961.5625		
		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>0.022110</b>	<b>1000000</b>	<b>297533.9375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19873.9746094		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>19873.9746094</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000068	1000000	915.074951172		
<b>Internal Plating Total:</b>				<b>0.000068</b>	<b>1000000</b>	<b>915.074951172</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001238	750000	16659.7460938		
		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)		0.000413	250000	5557.734375		
<b>Die Attach Total:</b>				<b>0.001651</b>	<b>1000000</b>	<b>22217.4804688</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006601	150000	88829.5546875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036088	820000	485635.65625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001100	25000	14802.6835938		
		Carbon Black (C)	1333-86-4	0.000220	5000	2960.53662109		
		<b>Encapsulation Total:</b>				<b>0.044009</b>	<b>1000000</b>	<b>592228.4375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2489.54223633		
					<b>TOTAL MASS (g) :</b>	<b>0.074311</b>		