

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

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(printed on: 2020-07-11 20:19:07)

**TOTAL MASS (g) : 0.135391**

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	0.000825	1000000	6093.44238281		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.047911	975000	353870.21875		
		Iron (Fe)	7439-89-6	0.001179	24000	8708.08398438		
		Phosphorus (P)	7723-14-0	0.000015	300	110.789863586		
		Zinc (Zn)	7440-66-6	0.000034	700	251.123718262		
		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>0.049139</b>	<b>1000000</b>	<b>362940.21875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002585	1000000	19096.0195312		
		<b>External Plating Total:</b>				<b>0.002585</b>	<b>1000000</b>	<b>19096.0195312</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000393	1000000	2902.69458008		
<b>Internal Plating Total:</b>				<b>0.000393</b>	<b>1000000</b>	<b>2902.69458008</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000389	750000	2873.15039062		
		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)		0.000130	250000	960.178833008		
<b>Die Attach Total:</b>				<b>0.000519</b>	<b>1000000</b>	<b>3833.3293457</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.010624	130000	78468.7734375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.067828	830000	500976.96875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.002860	35000	21123.9335938		
		Carbon Black (C)	1333-86-4	0.000409	5000	3020.87036133		
		<b>Encapsulation Total:</b>				<b>0.081721</b>	<b>1000000</b>	<b>603590.625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000209	1000000	1543.67211914		
					<b>TOTAL MASS (g) :</b>	<b>0.135391</b>		