

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

TO-92

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**TOTAL MASS (g) : 0.206147**

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	0.002733	1000000	13257.5166016		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.088433	975000	428979.84375		
		Iron (Fe)	7439-89-6	0.002177	24000	10560.4150391		
		Phosphorus (P)	7723-14-0	0.000027	300	130.974365234		
		Zinc (Zn)	7440-66-6	0.000063	700	305.606842041		
		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>0.090700</b>	<b>1000000</b>	<b>439976.84375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.005680	1000000	27554.0957031		
		<b>External Plating Total:</b>				<b>0.005680</b>	<b>1000000</b>	<b>27554.0957031</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000320	1000000	1552.28881836		
<b>Internal Plating Total:</b>				<b>0.000320</b>	<b>1000000</b>	<b>1552.28881836</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000848	750000	4113.56542969		
		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)		0.000283	250000	1372.80541992		
<b>Die Attach Total:</b>				<b>0.001131</b>	<b>1000000</b>	<b>5486.37060547</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.014243	135000	69091.3984375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.090730	860000	440122.375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000528	5000	2561.27661133		
		<b>Encapsulation Total:</b>				<b>0.105501</b>	<b>1000000</b>	<b>511775.0625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000082	1000000	397.773986816		
					<b>TOTAL MASS (g) :</b>	<b>0.206147</b>		