

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

SOIC-CAPACITOR

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**TOTAL MASS (g) : 0.746755**

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	0.003011	1000000	4032.11035156		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.184353	975000	246872.015625		
		Iron (Fe)	7439-89-6	0.004538	24000	6076.95654297		
		Phosphorus (P)	7723-14-0	0.000057	300	76.3302230835		
		Zinc (Zn)	7440-66-6	0.000132	700	176.764724731		
		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>0.189080</b>	<b>1000000</b>	<b>253202.046875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.008359	1000000	11194.2421875		
		<b>External Plating Total:</b>				<b>0.008359</b>	<b>1000000</b>	<b>11194.2421875</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001513	1000000	2026.09851074		
<b>Internal Plating Total:</b>				<b>0.001513</b>	<b>1000000</b>	<b>2026.09851074</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000907	750000	1214.58776855		
		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)		0.000302	250000	404.416229248		
<b>Die Attach Total:</b>				<b>0.001209</b>	<b>1000000</b>	<b>1619.00415039</b>		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.081459	150000	109083.921875		
		Bromine (Br)	40039-93-8	0.005431	10000	7272.79736328		
		Silica (SiO2)	60676-86-0	0.439879	810000	589053.6875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.016292	30000	21817.0507812		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		<b>Encapsulation Total:</b>				<b>0.543061</b>	<b>1000000</b>	<b>727227.4375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000522	1000000	699.024108887		
					<b>TOTAL MASS (g) :</b>	<b>0.746755</b>		