

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1634acs8-5#pbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 17:01:54)

**TOTAL MASS (g) : 0.073042**

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	0.001763	1000000	24136.8496094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000073	1000000	999.427062988		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.014071	580000	192642.984375		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.010189	420000	139495.375		
		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>0.024260</b>	<b>1000000</b>	<b>332138.375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	20219.2597656		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>20219.2597656</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2656.01171875		
<b>Internal Plating Total:</b>				<b>0.000194</b>	<b>1000000</b>	<b>2656.01171875</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000638	750000	8734.71875		
		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)		0.000213	250000	2916.13647461		
<b>Die Attach Total:</b>				<b>0.000851</b>	<b>1000000</b>	<b>11650.8554688</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006636	150000	90852.0234375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036276	820000	496646.8125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001106	25000	15142.0048828		
		Carbon Black (C)	1333-86-4	0.000221	5000	3025.66259766		
		<b>Encapsulation Total:</b>				<b>0.044239</b>	<b>1000000</b>	<b>605666.4375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2532.79467773		
					<b>TOTAL MASS (g) :</b>	<b>0.073042</b>		