

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1639is#trpbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 20:14:02)

**TOTAL MASS (g) : 0.133081**

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	0.002348	1000000	17643.3300781		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000098	1000000	736.391113281		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.025972	580000	195158.671875		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.018808	420000	141326.984375		
		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>0.044780</b>	<b>1000000</b>	<b>336485.65625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002585	1000000	19427.4824219		
		<b>External Plating Total:</b>				<b>0.002585</b>	<b>1000000</b>	<b>19427.4824219</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000358	1000000	2690.08178711		
<b>Internal Plating Total:</b>				<b>0.000358</b>	<b>1000000</b>	<b>2690.08178711</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000770	750000	5785.93017578		
		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)		0.000257	250000	1931.14819336		
<b>Die Attach Total:</b>				<b>0.001027</b>	<b>1000000</b>	<b>7717.07861328</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.010599	130000	79642.9609375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.067671	830000	508493.125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.002854	35000	21445.5136719		
		Carbon Black (C)	1333-86-4	0.000408	5000	3065.79174805		
		<b>Encapsulation Total:</b>				<b>0.081532</b>	<b>1000000</b>	<b>612647.375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000353	1000000	2652.51098633		
					<b>TOTAL MASS (g) :</b>	<b>0.133081</b>		