

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1174cs8-3.3#trpbf

(Engineering Calculation)

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(printed on: 2020-07-11 21:32:52)

**TOTAL MASS (g) : 0.076126**

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	0.004216	1000000	55381.9726562		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	310709.1875		
		Iron (Fe)	7439-89-6	0.000582	24000	7645.234375		
		Phosphorus (P)	7723-14-0	0.000007	300	91.9529953003		
		Zinc (Zn)	7440-66-6	0.000017	700	223.314422607		
		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>0.024259</b>	<b>1000000</b>	<b>318669.65625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19400.1367188		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>19400.1367188</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000068	1000000	893.25769043		
		<b>Internal Plating Total:</b>				<b>0.000068</b>	<b>1000000</b>	<b>893.25769043</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001155	750000	15172.2431641		
		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)		0.000385	250000	5057.41455078		
<b>Die Attach Total:</b>				<b>0.001540</b>	<b>1000000</b>	<b>20229.6582031</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006657	150000	87447.296875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036392	820000	478050.46875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001110	25000	14581.1171875		
		Carbon Black (C)	1333-86-4	0.000222	5000	2916.22363281		
		<b>Encapsulation Total:</b>				<b>0.044381</b>	<b>1000000</b>	<b>582995.125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2430.18603516		
					<b>TOTAL MASS (g) :</b>	<b>0.076126</b>		