

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1442cs8#pbf

(Engineering Calculation)

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**TOTAL MASS (g) : 0.073903**

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	0.002434	1000000	32935.1289062		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	320055.3125		
		Iron (Fe)	7439-89-6	0.000582	24000	7875.203125		
		Phosphorus (P)	7723-14-0	0.000007	300	94.7189407349		
		Zinc (Zn)	7440-66-6	0.000017	700	230.031707764		
		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>328255.25</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19983.6933594		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>19983.6933594</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2625.06762695		
<b>Internal Plating Total:</b>				<b>0.000194</b>	<b>1000000</b>	<b>2625.06762695</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000787	750000	10649.1152344		
		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)		0.000262	250000	3545.19433594		
<b>Die Attach Total:</b>				<b>0.001049</b>	<b>1000000</b>	<b>14194.3095703</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006657	150000	90077.7109375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036392	820000	492430.25		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001110	25000	15019.7177734		
		Carbon Black (C)	1333-86-4	0.000222	5000	3003.94360352		
		<b>Encapsulation Total:</b>				<b>0.044381</b>	<b>1000000</b>	<b>600531.625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000109	1000000	1474.90930176		
					<b>TOTAL MASS (g) :</b>	<b>0.073903</b>		