

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1453cs8#pbf

(Engineering Calculation)

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**TOTAL MASS (g) : 0.075855**

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	0.003908	1000000	51519.4453125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	311819.21875		
		Iron (Fe)	7439-89-6	0.000582	24000	7672.54833984		
		Phosphorus (P)	7723-14-0	0.000007	300	92.2815093994		
		Zinc (Zn)	7440-66-6	0.000017	700	224.112228394		
		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>319808.125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19469.4453125		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>19469.4453125</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2557.51586914		
<b>Internal Plating Total:</b>				<b>0.000194</b>	<b>1000000</b>	<b>2557.51586914</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001088	750000	14343.1826172		
		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)		0.000363	250000	4785.45507812		
<b>Die Attach Total:</b>				<b>0.001451</b>	<b>1000000</b>	<b>19128.6367188</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006657	150000	87759.7109375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036392	820000	479758.34375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001110	25000	14633.2089844		
		Carbon Black (C)	1333-86-4	0.000222	5000	2926.64208984		
		<b>Encapsulation Total:</b>				<b>0.044381</b>	<b>1000000</b>	<b>585077.9375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2438.8684082		
					<b>TOTAL MASS (g) :</b>	<b>0.075855</b>		