

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1658cs8#pbf

(Engineering Calculation)

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**TOTAL MASS (g) : 0.073781**

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	31823.9746094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000098	1000000	1328.25793457		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.014071	580000	190713.4375		
		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	138098.171875		
		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>328811.625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	20016.7382812		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>20016.7382812</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2629.40869141		
<b>Internal Plating Total:</b>				<b>0.000194</b>	<b>1000000</b>	<b>2629.40869141</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000770	750000	10436.3125		
		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	3483.28857422		
<b>Die Attach Total:</b>				<b>0.001027</b>	<b>1000000</b>	<b>13919.6015625</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006629	150000	89847.1640625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036237	820000	491143.71875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001105	25000	14976.7861328		
		Carbon Black (C)	1333-86-4	0.000221	5000	2995.35717773		
		<b>Encapsulation Total:</b>				<b>0.044192</b>	<b>1000000</b>	<b>598963</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2507.42553711		
					<b>TOTAL MASS (g) :</b>	<b>0.073781</b>		