

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1655lcs8#pbf

(Engineering Calculation)

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**TOTAL MASS (g) : 0.074539**

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	0.004803	1000000	64436.1992188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000200	1000000	2683.16455078		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.012824	580000	172044.515625		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.009286	420000	124579.34375		
		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>0.022110</b>	<b>1000000</b>	<b>296623.84375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19813.1855469		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>19813.1855469</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000068	1000000	912.276000977		
<b>Internal Plating Total:</b>				<b>0.000068</b>	<b>1000000</b>	<b>912.276000977</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001276	750000	17118.5898438		
		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)		0.000425	250000	5701.72509766		
<b>Die Attach Total:</b>				<b>0.001701</b>	<b>1000000</b>	<b>22820.3144531</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006599	150000	88531.015625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036076	820000	483989.25		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001100	25000	14757.4052734		
		Carbon Black (C)	1333-86-4	0.000220	5000	2951.48120117		
		<b>Encapsulation Total:</b>				<b>0.043995</b>	<b>1000000</b>	<b>590229.125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2481.92724609		
					<b>TOTAL MASS (g) :</b>	<b>0.074539</b>		