

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1448cs8#pbf

(Engineering Calculation)

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**TOTAL MASS (g) : 0.076668**

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	0.004693	1000000	61212.0976562		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	308512.625		
		Iron (Fe)	7439-89-6	0.000582	24000	7591.18701172		
		Phosphorus (P)	7723-14-0	0.000007	300	91.3029327393		
		Zinc (Zn)	7440-66-6	0.000017	700	221.735717773		
		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>316416.84375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19262.9882812		
		<b>External Plating Total:</b>				<b>0.001477</b>	<b>1000000</b>	<b>19262.9882812</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000068	1000000	886.942871094		
<b>Internal Plating Total:</b>				<b>0.000068</b>	<b>1000000</b>	<b>886.942871094</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001261	750000	16447.5722656		
		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)		0.000420	250000	5478.17626953		
<b>Die Attach Total:</b>				<b>0.001681</b>	<b>1000000</b>	<b>21925.7480469</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006657	150000	86829.09375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036392	820000	474670.90625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001110	25000	14478.0361328		
		Carbon Black (C)	1333-86-4	0.000222	5000	2895.60742188		
		<b>Encapsulation Total:</b>				<b>0.044381</b>	<b>1000000</b>	<b>578873.625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000109	1000000	1421.71716309		
					<b>TOTAL MASS (g) :</b>	<b>0.076668</b>		