

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1458isw#pbf

(Engineering Calculation)

SOIC WIDE

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**TOTAL MASS (g) : 0.756762**

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	0.010223	1000000	13508.8642578		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.185240	975000	244779.609375		
		Iron (Fe)	7439-89-6	0.004560	24000	6025.66894531		
		Phosphorus (P)	7723-14-0	0.000057	300	75.3208770752		
		Zinc (Zn)	7440-66-6	0.000133	700	175.748687744		
		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>0.189990</b>	<b>1000000</b>	<b>251056.34375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.008359	1000000	11046.2158203		
		<b>External Plating Total:</b>				<b>0.008359</b>	<b>1000000</b>	<b>11046.2158203</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001513	1000000	1999.30651855		
<b>Internal Plating Total:</b>				<b>0.001513</b>	<b>1000000</b>	<b>1999.30651855</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.002201	750000	2908.44262695		
		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)		0.000734	250000	969.921325684		
<b>Die Attach Total:</b>				<b>0.002935</b>	<b>1000000</b>	<b>3878.36401367</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.073286	135000	96841.4921875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.466860	860000	616917.5625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.002714	5000	3586.33056641		
		<b>Encapsulation Total:</b>				<b>0.542860</b>	<b>1000000</b>	<b>717345.375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000882	1000000	1165.49145508		
					<b>TOTAL MASS (g) :</b>	<b>0.756762</b>		