

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1780isw#trpbf

(Engineering Calculation)

SOIC WIDE

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**TOTAL MASS (g) : 0.512325**

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	0.004106	1000000	8014.44873047		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.161470	975000	315171.21875		
		Iron (Fe)	7439-89-6	0.003975	24000	7758.75195312		
		Phosphorus (P)	7723-14-0	0.000050	300	97.5943527222		
		Zinc (Zn)	7440-66-6	0.000116	700	226.418930054		
		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>0.165611</b>	<b>1000000</b>	<b>323254</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.005671	1000000	11068.6308594		
		<b>External Plating Total:</b>				<b>0.005671</b>	<b>1000000</b>	<b>11068.6308594</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001325	1000000	2586.25048828		
<b>Internal Plating Total:</b>				<b>0.001325</b>	<b>1000000</b>	<b>2586.25048828</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001132	750000	2209.53637695		
		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)		0.000377	250000	735.861450195		
<b>Die Attach Total:</b>				<b>0.001509</b>	<b>1000000</b>	<b>2945.39770508</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.045043	135000	87918.8515625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.286939	860000	560072.5625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001668	5000	3255.74804688		
		<b>Encapsulation Total:</b>				<b>0.333650</b>	<b>1000000</b>	<b>651247.125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000453	1000000	884.20489502		
					<b>TOTAL MASS (g) :</b>	<b>0.512325</b>		