

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc3780ig#trpbf

(Engineering Calculation)

SSOP

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**TOTAL MASS (g) : 0.165067**

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	0.006435	1000000	38984.265625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.075163	975000	455349.53125		
		Iron (Fe)	7439-89-6	0.001850	24000	11207.5976562		
		Phosphorus (P)	7723-14-0	0.000023	300	139.33770752		
		Zinc (Zn)	7440-66-6	0.000054	700	327.140686035		
		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>0.077090</b>	<b>1000000</b>	<b>467023.65625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003400	1000000	20595.3222656		
		<b>External Plating Total:</b>				<b>0.003400</b>	<b>1000000</b>	<b>20595.3222656</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000617	1000000	3737.88500977		
<b>Internal Plating Total:</b>				<b>0.000617</b>	<b>1000000</b>	<b>3737.88500977</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001551	750000	9396.20703125		
		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)		0.000517	250000	3132.0690918		
<b>Die Attach Total:</b>				<b>0.002068</b>	<b>1000000</b>	<b>12528.2763672</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.007726	103000	46805.3515625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.067134	895000	406708.5625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000150	2000	908.724121094		
		<b>Encapsulation Total:</b>				<b>0.075010</b>	<b>1000000</b>	<b>454422.65625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000447	1000000	2707.99780273		
					<b>TOTAL MASS (g) :</b>	<b>0.165067</b>		