

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc3784mpgn#trpbf

(Engineering Calculation)

SSOP

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**TOTAL MASS (g) : 0.169299**

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	0.002223	1000000	13130.6191406		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.064009	975000	378082.6875		
		Iron (Fe)	7439-89-6	0.001576	24000	9308.97753906		
		Phosphorus (P)	7723-14-0	0.000020	300	118.134223938		
		Zinc (Zn)	7440-66-6	0.000046	700	271.708740234		
		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>0.065651</b>	<b>1000000</b>	<b>387781.5</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003749	1000000	22143.8574219		
		<b>External Plating Total:</b>				<b>0.003749</b>	<b>1000000</b>	<b>22143.8574219</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000525	1000000	3101.0234375		
<b>Internal Plating Total:</b>				<b>0.000525</b>	<b>1000000</b>	<b>3101.0234375</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000738	750000	4359.15283203		
		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)		0.000246	250000	1453.05102539		
<b>Die Attach Total:</b>				<b>0.000984</b>	<b>1000000</b>	<b>5812.20410156</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.009848	103000	58169.2890625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.085571	895000	505443.15625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000191	2000	1128.1817627		
		<b>Encapsulation Total:</b>				<b>0.095610</b>	<b>1000000</b>	<b>564740.6875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000557	1000000	3290.03808594		
					<b>TOTAL MASS (g) :</b>	<b>0.169299</b>		