

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1tc2975cup#trpbf

(Engineering Calculation)

QFN 9mm X 9mm Exp. Pad

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**TOTAL MASS (g) : 0.223819**

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	0.004920	1000000	21982.0214844		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.104491	975000	466854.375		
		Iron (Fe)	7439-89-6	0.002572	24000	11491.4140625		
		Phosphorus (P)	7723-14-0	0.000032	300	142.972488403		
		Zinc (Zn)	7440-66-6	0.000075	700	335.091827393		
		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>0.107170</b>	<b>1000000</b>	<b>478823.84375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003192	1000000	14262.7226562		
		<b>External Plating Total:</b>				<b>0.003192</b>	<b>1000000</b>	<b>14262.7226562</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002279	1000000	10182.3222656		
<b>Internal Plating Total:</b>				<b>0.002279</b>	<b>1000000</b>	<b>10182.3222656</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001717	750000	7671.36816406		
		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)		0.000572	250000	2555.63354492		
<b>Die Attach Total:</b>				<b>0.002289</b>	<b>1000000</b>	<b>10227.0009766</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.013460	130000	60137.8085938		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.089044	860000	397838.84375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001035	10000	4624.26660156		
		<b>Encapsulation Total:</b>				<b>0.103539</b>	<b>1000000</b>	<b>462600.90625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000430	1000000	1921.19287109		
					<b>TOTAL MASS (g) :</b>	<b>0.223819</b>		