

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc2751cuhf-12#trpbf

(Engineering Calculation)

QFN 5mm X 7mm Exp. Pad

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**TOTAL MASS (g) : 0.090912**

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	0.003907	1000000	42975.6953125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.037381	975000	411178.5		
		Iron (Fe)	7439-89-6	0.000920	24000	10119.6923828		
		Phosphorus (P)	7723-14-0	0.000012	300	131.995986938		
		Zinc (Zn)	7440-66-6	0.000027	700	296.990966797		
		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>0.038340</b>	<b>1000000</b>	<b>421727.15625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001850	1000000	20347.75		
		<b>External Plating Total:</b>				<b>0.001850</b>	<b>1000000</b>	<b>20347.75</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000831	1000000	9140.72167969		
		<b>Internal Plating Total:</b>				<b>0.000831</b>	<b>1000000</b>	<b>9140.72167969</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001476	750000	16235.5058594		
		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)		0.000492	250000	5411.83544922		
<b>Die Attach Total:</b>				<b>0.001968</b>	<b>1000000</b>	<b>21647.3417969</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.005689	130000	62577.0898438		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.037634	860000	413961.40625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000438	10000	4817.85302734		
		<b>Encapsulation Total:</b>				<b>0.043761</b>	<b>1000000</b>	<b>481356.34375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000255	1000000	2804.91455078		
					<b>TOTAL MASS (g) :</b>	<b>0.090912</b>		