

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc6403hud-1#trpbf

(Engineering Calculation)

QFN 3mm X 3mm Exp. Pad

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**TOTAL MASS (g) : 0.022623**

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	0.000611	1000000	27008.1972656		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.008752	975000	386867.03125		
		Iron (Fe)	7439-89-6	0.000215	24000	9503.70214844		
		Phosphorus (P)	7723-14-0	0.000003	300	132.609817505		
		Zinc (Zn)	7440-66-6	0.000006	700	265.21963501		
		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>0.008976</b>	<b>1000000</b>	<b>396768.5625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000413	1000000	18245.3945312		
		<b>External Plating Total:</b>				<b>0.000413</b>	<b>1000000</b>	<b>18245.3945312</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000203	1000000	8973.26367188		
<b>Internal Plating Total:</b>				<b>0.000203</b>	<b>1000000</b>	<b>8973.26367188</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000417	750000	18432.7636719		
		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)		0.000139	250000	6144.25439453		
<b>Die Attach Total:</b>				<b>0.000556</b>	<b>1000000</b>	<b>24577.0175781</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001534	130000	67807.8125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.010148	860000	448574.78125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000118	10000	5215.98632812		
		<b>Encapsulation Total:</b>				<b>0.011800</b>	<b>1000000</b>	<b>521598.625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000064	1000000	2829.00927734		
					<b>TOTAL MASS (g) :</b>	<b>0.022623</b>		