

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC6410IUD-6#TRPBF

(Engineering Calculation)

QFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.022621

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	0.000602	1000000	2612.720701		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.008752	975000	38690.21875		
		Iron (Fe)	7439-89-6	0.000215	24000	9504.54394531		
		Phosphorus (P)	7723-14-0	0.000003	300	132.621536255		
		Zinc (Zn)	7440-66-6	0.000006	700	265.24307251		
		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		
		Lead Frame Total:				0.008976	1000000	396803.65625
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000413	1000000	18247.0078125		
External Plating Total:						0.000413	1000000	18247.0078125
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000203	1000000	8974.05761719		
Internal Plating Total:						0.000203	1000000	8974.05761719
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000422	750000	18655.4296875		
		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)		0.000141	250000	6233.21191406		
		Die Attach Total:				0.000563	1000000	24886.6425781
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.001534	130000	67813.8125
Bromine (Br)	40039-03-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.010148	860000	448614.4375		
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	5216.44726562		
Encapsulation Total:						0.011800	1000000	521644.71875
Lead Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000064	1000000	2829.25952148		

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