

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc6400cud-20#trpbf

(Engineering Calculation)

QFN 3mm X 3mm Exp. Pad

(printed on: 2020-07-11 22:41:21)

TOTAL MASS (g) : 0.021055

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	29019.7871094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.007293	975000	346385.125		
		Iron (Fe)	7439-89-6	0.000180	24000	8549.20117188		
		Phosphorus (P)	7723-14-0	0.000002	300	94.9911193848		
		Zinc (Zn)	7440-66-6	0.000005	700	237.477798462		
		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:				0.007480	1000000	355266.8125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000345	1000000	16366.9140625		
		External Plating Total:				0.000345	1000000	16366.9140625
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000169	1000000	8026.75		
Internal Plating Total:				0.000169	1000000	8026.75		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000417	750000	19805.6484375		
		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	6601.8828125		
Die Attach Total:				0.000556	1000000	26407.53125		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001538	130000	73048.1640625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.010174	860000	483219.84375		
		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	5604.47607422		
		Encapsulation Total:				0.011830	1000000	561872.5
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000064	1000000	3039.71582031		
					TOTAL MASS (g) :	0.021055		