

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc3209euf-2#trpbf

(Engineering Calculation)

QFN 4mm X 4mm Exp. Pad

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TOTAL MASS (g) : 0.03925

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	0.001228	1000000	31286.8691406		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.015239	975000	388257.8125		
		Iron (Fe)	7439-89-6	0.000375	24000	9554.21386719		
		Phosphorus (P)	7723-14-0	0.000005	300	127.389518738		
		Zinc (Zn)	7440-66-6	0.000011	700	280.256958008		
		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:				0.015630	1000000	398219.625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000734	1000000	18692.9472656		
		External Plating Total:				0.000734	1000000	18692.9472656
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000347	1000000	8840.83300781		
Internal Plating Total:				0.000347	1000000	8840.83300781		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000650	750000	16560.6386719		
		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)		0.000217	250000	5528.70507812		
Die Attach Total:				0.000867	1000000	22089.34375		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002640	130000	67261.6640625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.017467	860000	445022.5625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000203	10000	5172.01464844		
		Encapsulation Total:				0.020310	1000000	517456.21875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000134	1000000	3414.03930664		
					TOTAL MASS (g) :	0.03925		