

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3615IUF#PBF

(Engineering Calculation)

QFN 4mm X 4mm Exp. Pad

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TOTAL MASS (g): 0.041519

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	0.002276	1000000	5727.4921875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.015961	975000	38431		
		Iron (Fe)	7439-89-6	0.000393	24000	9465.65820312		
		Phosphorus (P)	7723-14-0	0.000005	300	120.428222656		
		Zinc (Zn)	7440-66-6	0.000011	700	264.942108154		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-96-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.016370	1000000	394282
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000773	1000000	18606.3339844		
External Plating Total:						0.000773	1000000	18606.3339844
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000362	1000000	8719.00390625		
Internal Plating Total:						0.000362	1000000	8719.00390625
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001018	750000	24519.1855469		
		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)		0.000339	250000	8165.03369141		
		Die Attach Total:				0.001357	1000000	32684.21875
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.002616	130000	63008.046875
				Bromine (Br)	40079-09-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.017303	860000	416753.875		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000201	10000	4841.21484375		
Encapsulation Total:						0.020120	1000000	484603.1875
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000161	1000000	3877.7890625

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0.041519