

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2392CLX-16#PBF

(Engineering Calculation)

LQFP 7mm X 7mm

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TOTAL MASS (g): 0.195722

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	0.004170	1000000	21305.6972656	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.042592	693000	21764.453125	
		Iron (Fe)	7439-89-6	0.000651	10599.9990234	3326.14135742	
		Phosphorus (P)	7723-14-0	0.000000	0	0	
		Zinc (Zn)	7440-66-6	0.000602	9800	3075.78637695	
		Nickel (Ni)	7440-02-0	0.013288	216200.015625	67892.109375	
		Silicon (Si)	7440-21-3	0.000169	6000	1885.32421875	
		Magnesium (Mg)	7439-96-4	0.001561	25400	7975.5859375	
		Tin (Sn)	7440-31-5	0.002597	39000	12246.9443359	
		Lead Frame Total:			0.061460	1000000	314016.34375
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0
Exter. Plating Sn	7440-31-5			0.002712	1000000	13857.879766	
External Plating Total:					0.002712	1150000	13857.879766
Inter. Plating Ni	7440-02-0			0.000000	0	0	
Inter. Plating Ag	7440-22-4			0.001274	1000000	6599.22314453	
Internal Plating Total:					0.001274	1000000	6599.22314453
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000471	750000	2416.68945312	
		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)		0.000158	250000	807.266235342	
		Die Attach Total:			0.000629	1000000	3223.95532227
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.015015	123000
Bromine (Br)	40039-03-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.106689	874000	545103.9375	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000000	0	0	
Carbon Black (C)	1333-86-4			0.000366	3000	1869.99645996	
Encapsulation Total:					0.122070	1000000	62369.75
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.001008	1000000	5150.15429688	

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