

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2389HLX-16PBF

(Engineering Calculation)

LQFP 7mm X 7mm

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TOTAL MASS (g): 0.194692

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	0.004583	1000000	23529.7809844	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.042592	693000	218765.71875	
		Iron (Fe)	7439-89-6	0.000651	10599.9990234	3343.73803711	
		Phosphorus (P)	7723-14-0	0.000000	0	0	
		Zinc (Zn)	7440-66-6	0.000602	9800	3092.0534961	
		Nickel (Ni)	7440-02-0	0.013288	218200.015625	68251.28125	
		Silicon (Si)	7440-21-3	0.000169	6000	1895.29833984	
		Magnesium (Mg)	7439-98-4	0.001561	25400	8017.78027344	
		Tin (Sn)	7440-31-5	0.002397	39000	12311.7535516	
		Lead Frame Total:			0.061460	1000000	315677.625
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0
Exter. Plating Sn	7440-31-5			0.002712	1000000	13931.1894531	
External Plating Total:					0.002712	1000000	13931.1894531
Inter. Plating Ni	7440-02-0			0.000000	0	0	
Inter. Plating Ag	7440-22-4			0.001274	1000000	6543.65917969	
Internal Plating Total:					0.001274	1000000	6543.65917969
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001211	750000	6230.34423828	
		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)		0.000404	250000	2075.0690918	
		Die Attach Total:			0.001617	1000000	8305.41308594
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.016479	135000
Bromine (Br)	40039-03-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.104980	86000	539209.8125	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000000	0	0	
Carbon Black (C)	1333-86-4			0.000610	5000	3133.14916992	
Encapsulation Total:					0.122069	1000000	620984.25
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000977	1000000	5018.17480469	

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