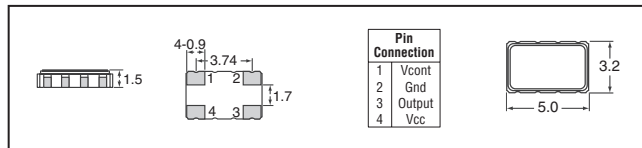




CSX532T Series SMD TCXO Oscillators

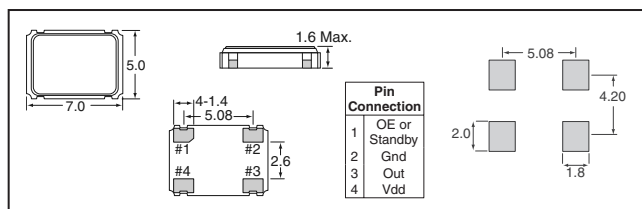
Specifications: • Frequency Tolerance: $\pm 1.5\text{ppm}$ @ 25°C , $\pm 2^\circ\text{C}$ • Frequency/Temperature: $\pm 2.5\text{ppm}$, $-30^\circ\text{C} \sim 75^\circ\text{C}$ • Frequency/Voltage Coefficient: $\pm 0.3\text{ppm}$ / $\text{Vdd} \pm 5\%$ • Frequency/Load Coefficient: $\pm 0.2\text{ppm}$ / $(10\text{k}\Omega/10\text{pF})$ $\pm 10\%$ • Power Consumption: 1.0mA max. / 13MHz • Output Level: 0.8Vp-p min.; $10\text{K}\Omega/10\text{pF}$ • Frequency Adjustment: $\pm 8\text{ppm}$ min. / $\text{Vdd} \pm 1.0\text{V}$ • Start-up Time: 3.5ms Max. • Aging (First Year): $\pm 1\text{ppm}$



Supply Voltage	Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each	1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
2.8	13.000	300-1100-1-ND	12.84	9.50	8.48		300-1100-2-ND	6828.89/M	CSX532T13.000M2-U10
	16.800	300-1101-1-ND	12.84	9.50	8.48		300-1101-2-ND	6828.89/M	CSX532T16.800M2-U10
	19.200	300-1102-1-ND	12.84	9.50	8.48		300-1102-2-ND	6828.89/M	CSX532T19.200M2-U10
	26.000	300-1103-1-ND	12.84	9.50	8.48		300-1103-2-ND	6828.89/M	CSX532T26.000M2-U10
	13.000	300-1104-1-ND	12.84	9.50	8.48		300-1104-2-ND	6828.89/M	CSX532T13.000M3-U10
3	16.800	300-1105-1-ND	12.84	9.50	8.48		300-1105-2-ND	6828.89/M	CSX532T16.800M3-U10
	19.200	300-1106-1-ND	12.84	9.50	8.48		300-1106-2-ND	6828.89/M	CSX532T19.200M3-U10
	26.000	300-1107-1-ND	12.84	9.50	8.48		300-1107-2-ND	6828.89/M	CSX532T26.000M3-U10

CSX750FC, FB, FJ Series SMD Oscillators

SPECIFICATIONS	CSX-750FC (*)	CSX-750FB (*)	CSX-750FJ (*)
Frequency Range:	1.000MHz ~ 39.999MHz	40.000MHz ~ 70.000MHz	1.000MHz ~ 40.000MHz ~ 70.000MHz
Frequency Stability: (*)	B: $\pm 50\text{ppm}$ / C: $\pm 100\text{ppm}$ @ $(-20^\circ\text{C} \sim 70^\circ\text{C})$		
Operating Temperature:	$-20^\circ\text{C} \sim 70^\circ\text{C}$		
Storage Temperature:	$-55^\circ\text{C} \sim 125^\circ\text{C}$		
Supply Voltage:	Vdd: $5.0\text{V} \pm 0.5\text{V}$	Vdd: $3.3\text{V} \pm 0.3\text{V}$	Vdd: $3.3\text{V} \pm 0.3\text{V}$
Supply Current:	25mA Max.	45mA Max.	15mA Max.
Duty: TTL Level (1.4V)	40% ~ 60%	—	—
CMOS Level (VDD/2)	45% ~ 55%	45% ~ 55%	45% ~ 55%
Output Voltage: VOH	4.0V Min.	2.2V Min.	2.2V Min.
VOL	0.4V Max.	0.4V Max.	0.4V Max.
Output Load: TTL	10TTL Max.	—	—
CMOS	50pF Max.	30pF Max.	30pF Max.
Rise & Fall Time: CMOS	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.	tr, tf: 6nsec Max.
Start Up Time:	4msec Max.	10msec Max.	10msec Max.
Input (OE) Voltage:	V IH: 2.0V Min. V IL: 0.8V Max.	V IH: 2.0V Min. V IL: 0.4V Max.	V IH: 0.7VDD Min. V IL: 0.3VDD Max.
Disable Current: FC FB	10mA Max.	20mA Max.	5mA Max.
Stand-by Current: FJ	—	—	10 μA Max.
Shock Resistance:	$\pm 20\text{ppm}$ Max. (75cm height drop on hardwood board 3 times.)		



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each	1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
CSX-750FB								
1.84320	300-7230-1-ND	5.78	5.40	4.63		300-7230-2-ND	2156.49/M	CSX750FBC1.843200MTR
3.68640	300-7231-1-ND	5.78	5.40	4.63		300-7231-2-ND	2156.49/M	CSX750FBC3.686400MTR
4.00000	300-7232-1-ND	5.78	5.40	4.63		300-7232-2-ND	2156.49/M	CSX750FBC4.000000MTR
7.37280	300-7233-1-ND	5.78	5.40	4.63		300-7233-2-ND	2156.49/M	CSX750FBC7.372800MTR
8.00000	300-7234-1-ND	5.78	5.40	4.63		300-7234-2-ND	2156.49/M	CSX750FBC8.000000MTR
10.00000	300-7235-1-ND	5.78	5.40	4.63		300-7235-2-ND	2156.49/M	CSX750FBC10.000000MTR
12.00000	300-7236-1-ND	5.78	5.40	4.63		300-7236-2-ND	2156.49/M	CSX750FBC12.000000MTR
12.28800	300-7237-1-ND	5.78	5.40	4.63		300-7237-2-ND	2156.49/M	CSX750FBC12.288000MTR
14.31818	300-7238-1-ND	5.78	5.40	4.63		300-7238-2-ND	2156.49/M	CSX750FBC14.318180MTR
14.74560	300-7239-1-ND	5.78	5.40	4.63		300-7239-2-ND	2156.49/M	CSX750FBC14.745600MTR
16.00000	300-7240-1-ND	5.78	5.40	4.63		300-7240-2-ND	2156.49/M	CSX750FBC16.000000MTR
16.38400	300-7241-1-ND	5.78	5.40	4.63		300-7241-2-ND	2156.49/M	CSX750FBC16.384000MTR
18.43200	300-7242-1-ND	5.78	5.40	4.63		300-7242-2-ND	2156.49/M	CSX750FBC18.432000MTR
20.00000	300-7243-1-ND	5.78	5.40	4.63		300-7243-2-ND	2156.49/M	CSX750FBC20.000000MTR
24.00000	300-7244-1-ND	5.78	5.40	4.63		300-7244-2-ND	2156.49/M	CSX750FBC24.000000MTR

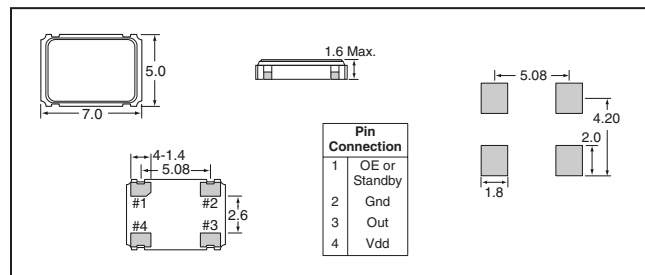
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each	1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
CSX-750FB (continued)								
24.57600	300-7245-1-ND	5.78	5.40	4.63		300-7245-2-ND	2156.49/M	CSX750FBC24.576000MTR
25.00000	300-7246-1-ND	5.78	5.40	4.63		300-7246-2-ND	2156.49/M	CSX750FBC25.000000MTR
27.00000	300-7247-1-ND	5.78	5.40	4.63		300-7247-2-ND	2156.49/M	CSX750FBC27.000000MTR
28.49120	300-7248-1-ND	5.78	5.40	4.63		300-7248-2-ND	2156.49/M	CSX750FBC28.491200MTR
32.00000	300-7249-1-ND	5.78	5.40	4.63		300-7249-2-ND	2156.49/M	CSX750FBC32.000000MTR
32.76800	300-7250-1-ND	5.78	5.40	4.63		300-7250-2-ND	2156.49/M	CSX750FBC32.768000MTR
33.33300	300-7251-1-ND	5.78	5.40	4.63		300-7251-2-ND	2156.49/M	CSX750FBC33.333000MTR
35.32800	300-7252-1-ND	5.78	5.40	4.63		300-7252-2-ND	2156.49/M	CSX750FBC35.328000MTR

CSX-750FC								
1.84320	300-7200-1-ND	5.78	5.40	4.63		300-7200-2-ND	2156.49/M	CSX750FCC1.843200MTR
3.68640	300-7201-1-ND	5.78	5.40	4.63		300-7201-2-ND	2156.49/M	CSX750FCC3.686400MTR
4.00000	300-7202-1-ND	5.78	5.40	4.63		300-7202-2-ND	2156.49/M	CSX750FCC4.000000MTR
7.37280	300-7203-1-ND	5.78	5.40	4.63		300-7203-2-ND	2156.49/M	CSX750FCC7.372800MTR
8.00000	300-7204-1-ND	5.78	5.40	4.63		300-7204-2-ND	2156.49/M	CSX750FCC8.000000MTR
10.00000	300-7205-1-ND	5.78	5.40	4.63		300-7205-2-ND	2156.49/M	CSX750FCC10.000000MTR
12.00000	300-7206-1-ND	5.78	5.40	4.63		300-7206-2-ND	2156.49/M	CSX750FCC12.000000MTR
12.28800	300-7207-1-ND	5.78	5.40	4.63		300-7207-2-ND	2156.49/M	CSX750FCC12.288000MTR
14.31818	300-7208-1-ND	5.78	5.40	4.63		300-7208-2-ND	2156.49/M	CSX750FCC14.318180MTR
14.74560	300-7209-1-ND	5.78	5.40	4.63		300-7209-2-ND	2156.49/M	CSX750FCC14.745600MTR
16.00000	300-7210-1-ND	5.78	5.40	4.63		300-7210-2-ND	2156.49/M	CSX750FCC16.000000MTR
16.38400	300-7211-1-ND	5.78	5.40	4.63		300-7211-2-ND	2156.49/M	CSX750FCC16.384000MTR
18.43200	300-7212-1-ND	5.78	5.40	4.63		300-7212-2-ND	2156.49/M	CSX750FCC18.432000MTR
20.00000	300-7213-1-ND	5.78	5.40	4.63		300-7213-2-ND	2156.49/M	CSX750FCC20.000000MTR
24.00000	300-7214-1-ND	5.78	5.40	4.63		300-7214-2-ND	2156.49/M	CSX750FCC24.000000MTR
24.57600	300-7215-1-ND	5.78	5.40	4.63		300-7215-2-ND	2156.49/M	CSX750FCC24.576000MTR
25.00000	300-7216-1-ND	5.78	5.40	4.63		300-7216-2-ND	2156.49/M	CSX750FCC25.000000MTR
27.00000	300-7217-1-ND	5.78	5.40	4.63		300-7217-2-ND	2156.49/M	CSX750FCC27.000000MTR
28.49120	300-7218-1-ND	5.78	5.40	4.63		300-7218-2-ND	2156.49/M	CSX750FCC28.491200MTR
32.00000	300-7219-1-ND	5.78	5.40	4.63		300-7219-2-ND	2156.49/M	CSX750FCC32.000000MTR
32.76800	300-7220-1-ND	5.78	5.40	4.63		300-7220-2-ND	2156.49/M	CSX750FCC32.768000MTR
33.33300	300-7221-1-ND	5.78	5.40	4.63		300-7221-2-ND	2156.49/M	CSX750FCC33.333000MTR
35.32800	300-7222-1-ND	5.78	5.40	4.63		300-7222-2-ND	2156.49/M	CSX750FCC35.328000MTR
40.00000	300-7223-1-ND	5.78	5.40	4.63		300-7223-2-ND	2156.49/M	CSX750FCC40.000000MTR
44.00000	300-7224-1-ND	5.78	5.40	4.63		300-7224-2-ND	2156.49/M	CSX750FCC44.000000MTR
45.00000	300-7225-1-ND	5.78	5.40	4.63		300-7225-2-ND	2156.49/M	CSX750FCC45.000000MTR
49.15200	300-7226-1-ND	5.78	5.40	4.63		300-7226-2-ND	2156.49/M	CSX750FCC49.152000MTR
50.00000	300-7227-1-ND	5.78	5.40	4.63		300-7227-2-ND	2156.49/M	CSX750FCC50.000000MTR
60.00000	300-7228-1-ND	5.78	5.40	4.63		300-7228-2-ND	2156.49/M	CSX750FCC60.000000MTR
66.66600	300-7229-1-ND	5.78	5.40	4.63		300-7229-2-ND	2156.49/M	CSX750FCC66.666000MTR

CSX-750FJ								
40.00000	300-7253-1-ND	5.78	5.40	4.63		300-7253-2-ND	2156.49/M	CSX750FJC40.000000MTR
44.00000	300-7254-1-ND	5.78	5.40	4.63		300-7254-2-ND	2156.49/M	CSX750FJC44.000000MTR
45.00000	300-7255-1-ND	5.78	5.40	4.63		300-7255-2-ND	2156.49/M	CSX750FJC45.000000MTR
49.15200	300-7256-1-ND	5.78	5.40	4.63		300-7256-2-ND	2156.49/M	CSX750FJC49.152000MTR
50.00000	300-7257-1-ND	5.78	5.40	4.63		300-7257-2-ND	2156.49/M	CSX750FJC50.000000MTR
60.00000	300-7258-1-ND	5.78	5.40	4.63		300-7258-2-ND	2156.49/M	CSX750FJC60.000000MTR
66.66600	300-7259-1-ND	5.78	5.40	4.63		300-7259-2-ND	2156.49/M	CSX750FJC66.666000MTR
80.00000	300-8191-1-ND	8.03	7.49	6.42		300-8191-2-ND	2995.13/M	CSX750FJB80.000000MTR

CSX750A Series High Frequency Ceramic Surface Mount Clock Oscillators

Specifications: • CSX750AC: 10TTL/30pF, OE, 5.0V operation type • CSX750AB: 15pF, OE, 3.3V operation type • Nominal Frequency: CSX750AC/AB 70.0 ~ 140.0MHz • Operating Temperature: $-20^\circ\text{C} \sim 70^\circ\text{C}$ • Supply Voltage: CSX750AC $5.0 \pm 0.5\text{V}$, CSX750AB $3.3 \pm 0.3\text{V}$ • Frequency Stability: B: $\pm 50\text{ppm}$ ($-20^\circ\text{C} \sim 70^\circ\text{C}$) • Current Consumption: 50mA Max (CSX750AC), 30mA Max (CSX750AB) • Duty Cycle: 40% ~ 60% (TTL level), 45% ~ 55% (C-MOS level)



Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
		1	10	50			
80.00	300-8145-1-ND	7.07	5.78	5.14	—	—	CSX750ACB80.000MTR
100.02	300-8153-1-ND	7.07	5.78	5.14	—	—	CSX750ABB100.020MTR
100.02	300-8147-1-ND	7.07	5.78	5.14	—	—	CSX750ACB100.020MTR
106.25	300-8154-1-ND	7.07	5.78	5.14	300-8154-2-ND	3594.15/M	CSX750ABB106.250MTR
106.25	300-8148-1-ND	7.07	5.78	5.14	300-8148-2-ND	3594.15/M	CSX750ACB106.250MTR
125.00	300-8155-1-ND	7.07	5.78	5.14	—	—	CSX750ABB125.000MTR
125.00	300-8149-1-ND	7.07	5.78	5.14	—	—	CSX750ACB125.000MTR
133.33	300-8150-1-ND	7.07	5.78	5.14	300-8150-2-ND	3594.15/M	CSX750ACB133.330MTR