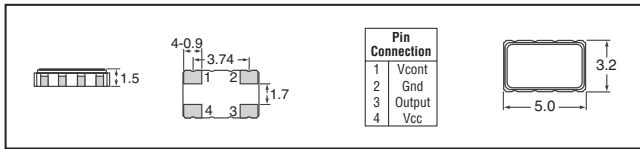


CSX532T Series SMD TCXO Oscillators

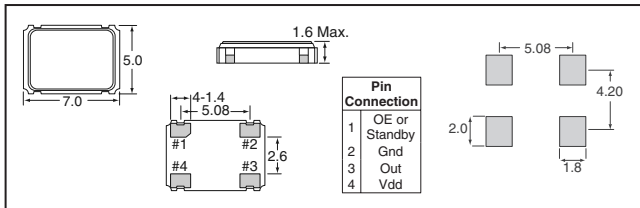
Specifications: • Frequency Tolerance: $\pm 1.5\text{ppm}$ @ 25°C , $\pm 2^\circ\text{C}$ • Frequency/Temperature: $\pm 2.5\text{ppm}$, -30°C - 75°C • Frequency/Voltage Coefficient: $\pm 0.3\text{ppm}/\text{Vdd}\pm 5\%$ • Frequency/Load Coefficient: $\pm 0.2\text{ppm}/(10\text{k}\Omega/10\text{pF}) \pm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



| Supply Voltage | 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 | | | |
| 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 |
| 3 | 13.000 | 300-1104-1-ND | 12.84 | 9.50 | 8.48 | 300-1104-2-ND | 6828.89/M | CSX532T13.000M3-U10 |
| | 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 ~ 39.999MHz |
| Frequency Stability: (*) | B $\pm 50\text{ppm}$ / C $\pm 100\text{ppm}$ @ (-20°C ~ 70°C) | | | |
| Operating Temperature: | -20°C ~ 70°C | | | |
| Storage Temperature: | -55°C ~ 125°C | | | |
| Supply Voltage: | Vdd: 5.0V $\pm 0.5\text{V}$ | | Vdd: 3.3V $\pm 0.3\text{V}$ | Vdd: 3.3V $\pm 0.3\text{V}$ |
| Supply Current: | 25mA Max. | 45mA Max. | 15mA Max. | 25mA 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: 8nsec Max. | tr, tf: 6nsec Max. |
| Start Up Time: | 4msec Max. | 10msec Max. | 4msec 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 | | | Digi-Key Part No. | T & R Pricing 2,000 | Citizen Part No. |
|------------------|-------------------|---------------------|------|------|-------------------|---------------------|----------------------|
| | | 1 | 10 | 50 | | | |
| CSX-750FB | | | | | | | |
| 1.84320 | 300-7230-1-ND | 5.78 | 5.40 | 4.63 | 300-7230-2-ND | 2156.49/M | CSX750FC1.843200MTR |
| 3.68640 | 300-7231-1-ND | 5.78 | 5.40 | 4.63 | 300-7231-2-ND | 2156.49/M | CSX750FC3.686400MTR |
| 4.00000 | 300-7232-1-ND | 5.78 | 5.40 | 4.63 | 300-7232-2-ND | 2156.49/M | CSX750FC4.000000MTR |
| 7.37280 | 300-7233-1-ND | 5.78 | 5.40 | 4.63 | 300-7233-2-ND | 2156.49/M | CSX750FC7.372800MTR |
| 8.00000 | 300-7234-1-ND | 5.78 | 5.40 | 4.63 | 300-7234-2-ND | 2156.49/M | CSX750FC8.000000MTR |
| 10.00000 | 300-7235-1-ND | 5.78 | 5.40 | 4.63 | 300-7235-2-ND | 2156.49/M | CSX750FC10.000000MTR |
| 12.00000 | 300-7236-1-ND | 5.78 | 5.40 | 4.63 | 300-7236-2-ND | 2156.49/M | CSX750FC12.000000MTR |
| 12.28800 | 300-7237-1-ND | 5.78 | 5.40 | 4.63 | 300-7237-2-ND | 2156.49/M | CSX750FC12.288000MTR |
| 14.31818 | 300-7238-1-ND | 5.78 | 5.40 | 4.63 | 300-7238-2-ND | 2156.49/M | CSX750FC14.318180MTR |
| 14.74560 | 300-7239-1-ND | 5.78 | 5.40 | 4.63 | 300-7239-2-ND | 2156.49/M | CSX750FC14.745600MTR |
| 16.00000 | 300-7240-1-ND | 5.78 | 5.40 | 4.63 | 300-7240-2-ND | 2156.49/M | CSX750FC16.000000MTR |
| 16.38400 | 300-7241-1-ND | 5.78 | 5.40 | 4.63 | 300-7241-2-ND | 2156.49/M | CSX750FC16.384000MTR |
| 18.43200 | 300-7242-1-ND | 5.78 | 5.40 | 4.63 | 300-7242-2-ND | 2156.49/M | CSX750FC18.432000MTR |
| 20.00000 | 300-7243-1-ND | 5.78 | 5.40 | 4.63 | 300-7243-2-ND | 2156.49/M | CSX750FC20.000000MTR |
| 24.00000 | 300-7244-1-ND | 5.78 | 5.40 | 4.63 | 300-7244-2-ND | 2156.49/M | CSX750FC24.000000MTR |

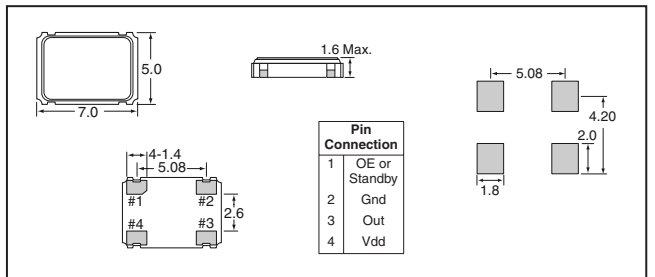
| Frequency (MHz) | Digi-Key Part No. | Cut Tape Price Each | | | Digi-Key Part No. | T & R Pricing 2,000 | Citizen Part No. |
|------------------------------|-------------------|---------------------|------|------|-------------------|---------------------|----------------------|
| | | 1 | 10 | 50 | | | |
| CSX-750FB (continued) | | | | | | | |
| 24.57600 | 300-7245-1-ND | 5.78 | 5.40 | 4.63 | 300-7245-2-ND | 2156.49/M | CSX750FC24.576000MTR |
| 25.00000 | 300-7246-1-ND | 5.78 | 5.40 | 4.63 | 300-7246-2-ND | 2156.49/M | CSX750FC25.000000MTR |
| 27.00000 | 300-7247-1-ND | 5.78 | 5.40 | 4.63 | 300-7247-2-ND | 2156.49/M | CSX750FC27.000000MTR |
| 29.49120 | 300-7248-1-ND | 5.78 | 5.40 | 4.63 | 300-7248-2-ND | 2156.49/M | CSX750FC29.491200MTR |
| 32.00000 | 300-7249-1-ND | 5.78 | 5.40 | 4.63 | 300-7249-2-ND | 2156.49/M | CSX750FC32.000000MTR |
| 32.76800 | 300-7250-1-ND | 5.78 | 5.40 | 4.63 | 300-7250-2-ND | 2156.49/M | CSX750FC32.768000MTR |
| 33.33300 | 300-7251-1-ND | 5.78 | 5.40 | 4.63 | 300-7251-2-ND | 2156.49/M | CSX750FC33.333000MTR |
| 35.32800 | 300-7252-1-ND | 5.78 | 5.40 | 4.63 | 300-7252-2-ND | 2156.49/M | CSX750FC35.328000MTR |

| CSX-750FC | | | | | | | |
|------------------|---------------|------|------|------|---------------|-----------|----------------------|
| 1.84320 | 300-7200-1-ND | 5.78 | 5.40 | 4.63 | 300-7200-2-ND | 2156.49/M | CSX750FC1.843200MTR |
| 3.68640 | 300-7201-1-ND | 5.78 | 5.40 | 4.63 | 300-7201-2-ND | 2156.49/M | CSX750FC3.686400MTR |
| 4.00000 | 300-7202-1-ND | 5.78 | 5.40 | 4.63 | 300-7202-2-ND | 2156.49/M | CSX750FC4.000000MTR |
| 7.37280 | 300-7203-1-ND | 5.78 | 5.40 | 4.63 | 300-7203-2-ND | 2156.49/M | CSX750FC7.372800MTR |
| 8.00000 | 300-7204-1-ND | 5.78 | 5.40 | 4.63 | 300-7204-2-ND | 2156.49/M | CSX750FC8.000000MTR |
| 10.00000 | 300-7205-1-ND | 5.78 | 5.40 | 4.63 | 300-7205-2-ND | 2156.49/M | CSX750FC10.000000MTR |
| 12.00000 | 300-7206-1-ND | 5.78 | 5.40 | 4.63 | 300-7206-2-ND | 2156.49/M | CSX750FC12.000000MTR |
| 12.28800 | 300-7207-1-ND | 5.78 | 5.40 | 4.63 | 300-7207-2-ND | 2156.49/M | CSX750FC12.288000MTR |
| 14.31818 | 300-7208-1-ND | 5.78 | 5.40 | 4.63 | 300-7208-2-ND | 2156.49/M | CSX750FC14.318180MTR |
| 14.74560 | 300-7209-1-ND | 5.78 | 5.40 | 4.63 | 300-7209-2-ND | 2156.49/M | CSX750FC14.745600MTR |
| 16.00000 | 300-7210-1-ND | 5.78 | 5.40 | 4.63 | 300-7210-2-ND | 2156.49/M | CSX750FC16.000000MTR |
| 16.38400 | 300-7211-1-ND | 5.78 | 5.40 | 4.63 | 300-7211-2-ND | 2156.49/M | CSX750FC16.384000MTR |
| 18.43200 | 300-7212-1-ND | 5.78 | 5.40 | 4.63 | 300-7212-2-ND | 2156.49/M | CSX750FC18.432000MTR |
| 20.00000 | 300-7213-1-ND | 5.78 | 5.40 | 4.63 | 300-7213-2-ND | 2156.49/M | CSX750FC20.000000MTR |
| 24.00000 | 300-7214-1-ND | 5.78 | 5.40 | 4.63 | 300-7214-2-ND | 2156.49/M | CSX750FC24.000000MTR |
| 24.57600 | 300-7215-1-ND | 5.78 | 5.40 | 4.63 | 300-7215-2-ND | 2156.49/M | CSX750FC24.576000MTR |
| 25.00000 | 300-7216-1-ND | 5.78 | 5.40 | 4.63 | 300-7216-2-ND | 2156.49/M | CSX750FC25.000000MTR |
| 27.00000 | 300-7217-1-ND | 5.78 | 5.40 | 4.63 | 300-7217-2-ND | 2156.49/M | CSX750FC27.000000MTR |
| 29.49120 | 300-7218-1-ND | 5.78 | 5.40 | 4.63 | 300-7218-2-ND | 2156.49/M | CSX750FC29.491200MTR |
| 32.00000 | 300-7219-1-ND | 5.78 | 5.40 | 4.63 | 300-7219-2-ND | 2156.49/M | CSX750FC32.000000MTR |
| 32.76800 | 300-7220-1-ND | 5.78 | 5.40 | 4.63 | 300-7220-2-ND | 2156.49/M | CSX750FC32.768000MTR |
| 33.33300 | 300-7221-1-ND | 5.78 | 5.40 | 4.63 | 300-7221-2-ND | 2156.49/M | CSX750FC33.333000MTR |
| 35.32800 | 300-7222-1-ND | 5.78 | 5.40 | 4.63 | 300-7222-2-ND | 2156.49/M | CSX750FC35.328000MTR |
| 40.00000 | 300-7223-1-ND | 5.78 | 5.40 | 4.63 | 300-7223-2-ND | 2156.49/M | CSX750FC40.000000MTR |
| 44.00000 | 300-7224-1-ND | 5.78 | 5.40 | 4.63 | 300-7224-2-ND | 2156.49/M | CSX750FC44.000000MTR |
| 45.00000 | 300-7225-1-ND | 5.78 | 5.40 | 4.63 | 300-7225-2-ND | 2156.49/M | CSX750FC45.000000MTR |
| 49.15200 | 300-7226-1-ND | 5.78 | 5.40 | 4.63 | 300-7226-2-ND | 2156.49/M | CSX750FC49.152000MTR |
| 50.00000 | 300-7227-1-ND | 5.78 | 5.40 | 4.63 | 300-7227-2-ND | 2156.49/M | CSX750FC50.000000MTR |
| 60.00000 | 300-7228-1-ND | 5.78 | 5.40 | 4.63 | 300-7228-2-ND | 2156.49/M | CSX750FC60.000000MTR |
| 66.66600 | 300-7229-1-ND | 5.78 | 5.40 | 4.63 | 300-7229-2-ND | 2156.49/M | CSX750FC66.666000MTR |

| CSX-750FJ | | | | | | | |
|------------------|---------------|------|------|------|---------------|-----------|----------------------|
| 40.00000 | 300-7253-1-ND | 5.78 | 5.40 | 4.63 | 300-7253-2-ND | 2156.49/M | CSX750FC40.000000MTR |
| 44.00000 | 300-7254-1-ND | 5.78 | 5.40 | 4.63 | 300-7254-2-ND | 2156.49/M | CSX750FC44.000000MTR |
| 45.00000 | 300-7255-1-ND | 5.78 | 5.40 | 4.63 | 300-7255-2-ND | 2156.49/M | CSX750FC45.000000MTR |
| 49.15200 | 300-7256-1-ND | 5.78 | 5.40 | 4.63 | 300-7256-2-ND | 2156.49/M | CSX750FC49.152000MTR |
| 50.00000 | 300-7257-1-ND | 5.78 | 5.40 | 4.63 | 300-7257-2-ND | 2156.49/M | CSX750FC50.000000MTR |
| 60.00000 | 300-7258-1-ND | 5.78 | 5.40 | 4.63 | 300-7258-2-ND | 2156.49/M | CSX750FC60.000000MTR |
| 66.66600 | 300-7259-1-ND | 5.78 | 5.40 | 4.63 | 300-7259-2-ND | 2156.49/M | CSX750FC66.666000MTR |
| 80.00000 | 300-8191-1-ND | 8.03 | 7.49 | 6.42 | 300-8191-2-ND | 2995.13/M | CSX750FC80.000000MTR |

CSX750A Series High Frequency Ceramic Surface Mount Clock Oscillators

Specifications: • CSX750A: 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°C ~ 70°C • Supply Voltage: CSX750AC 5.0 \pm 0.5V, CSX750AB 3.3 \pm 0.3V • Frequency Stability: B: $\pm 50\text{ppm}$ (-20°C ~ 70°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 | — | — | CSX750AC80.000MTR |
| 100.02 | 300-8153-1-ND | 7.07 | 5.78 | 5.14 | — | — | CSX750AB100.020MTR |
| 100.02 | 300-8147-1-ND | 7.07 | 5.78 | 5.14 | — | — | CSX750AC100.020MTR |
| 106.25 | 300-8154-1-ND | 7.07 | 5.78 | 5.14 | 300-8154-2-ND | 3594.15/M | CSX750AB106.250MTR |
| 106.25 | 300-8148-1-ND | 7.07 | | | | | |