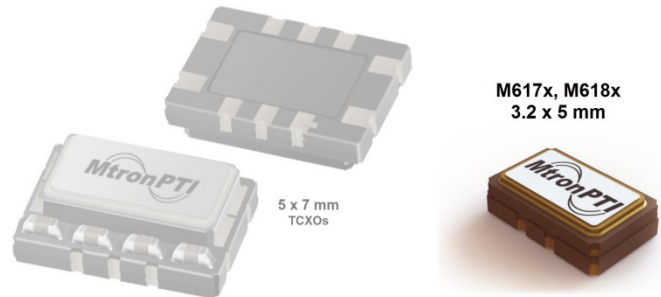


Be certain

Miniature TCXOs for switch, router and secure communication applications



Secure talk

Today we depend on instant communication – data, voice, video – anywhere, anytime; but how can we be sure the digital wireless ‘line’ we’re using goes straight to the right destination?

With so many handoffs and so many technologies involved, it’s good to know that the *fundamental data timing* is something you don’t have to worry about. In use today in switches and routers, found inside portable communications devices and serving as the master clock for encryption/decryption systems, MtronPTI’s high stability TCXOs have long been trusted to keep the data moving.

Now available in a smaller 3.2 x 5 mm package with low g-sensitivity and Stratum 3 stability, the M617x and M618x TCXO/VCTCXOs will make your connections and help keep them secure, whether in the handheld communicator or in the encrypted switch/router array.

About MtronPTI

MtronPTI offers a wide range of custom precision frequency control and data timing including: RF and microwave filters – crystal, cavity, lumped element, switched, digital and analog tunable – and low noise / harsh environment oscillators – crystal, TCXO, VCXO, OCXO and IEEE-1588 locked.

Vertically integrated with complete control of basic material science and manufacturing, MtronPTI provides high reliability high performance solutions for aero/defense communication and control, Internet communications, public safety radio, lab and field instrumentation and energy management applications.

One-on-one technical relationships, extensive characterization, and long term application support make MtronPTI the first choice to *increase confidence* on your next communications project.

M617x and M618x

At 3.2 x 5 mm, MtronPTI’s M617x and M618x series TCXO/TCVCXO oscillators bring tight Stratum 3 compliance and low g-sensitivity. Replacements in new applications for the popular M615x and M616x series, the performance specs of the M617x and M618x are similar or better, thanks to advances in proprietary in-house crystal processing.

Custom frequencies from 8 MHz to 52MHz are available with first article units on your control board in a few weeks and higher volumes shortly after.

MtronPTI uses an AS9100 REV C and ISO 9001:2008 quality management system in the design and manufacture of the M617x and M618x series.

Applications

Internet:	Gigabit Ethernet, 10G, 40G
Defense/commercial:	pt-to-pt radio, LMR, WLAN base stations

Features

M617x Stratum 3 TCXO/VCTCXO	
Holdover stability	0.34 ppm _{p-p} /24 hrs., -40 °C to +85 °C
Low phase noise	-156 dBc/Hz @ 100 kHz
Low g-sensitivity	1.2 ppb/g

M618x TCXO	
Stability	to ±0.1 ppm, 0 °C to +70 °C to ±0.2 ppm, -40 °C to +85 °C

Product pages

<http://www.mtronpti.com/products/Oscillator/TCXO/M617x-Series-Stratum-3>

<http://www.mtronpti.com/products/Oscillator/TCXO/M618x-Series>

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MtronPTI may change specifications without notice to improve end application performance or product manufacturability.
No liability is assumed as a result of product use or application.
Please contact MtronPTI for latest information.