



November 1, 2010 – Mercury's 3.2 x 2.5 Miniature VCXO Revealed

Mercury's VCXO's used in a PLL (phase lock loop), SONET / ATM & set-top box applications are now offered in the smallest package size available in the marketplace today measuring only 3.2 x 2.5 x 1.0mm in a RoHS Compliant 4 pad ceramic leadless surface mount enclosure.

Unlike traditional HCMOS square wave clock oscillators with a fixed output frequency, Mercury's VCXO can be tuned up and down $\pm 50\text{ppm}$ to $\pm 200\text{ppm}$ from the nominal frequency by varying the control voltage on the voltage control on pin 1. A varactor, (a voltage capacitance tuning diode) is used to achieve this functionality.

Other applications include video game consoles, RF applications, medical equipment, Fibre Channel, wireless repeaters and transponders.

This small footprint will enable engineering the flexibility to reduce the size of board level products where real estate is crucial and at a premium, while giving them the flexibility to pull the nominal frequency up and down.

This VCXO is available with input voltages of +1.8V, +2.5V, +3.3V or +5.0V and frequencies ranging from 0.625MHz up to 50.000MHz.

And a frequency stability as tight as $\pm 20\text{ppm}$ over an operating temperature range as wide as -40°C to $+85^{\circ}\text{C}$.

Prototype quantities are available in about 4 to 5 weeks, while the lead-time for volume production is 6 to 8 weeks, depending on the frequency and specifications required.

Please visit our website at <http://www.mercury-crystal.com> for additional information and to submit your request for quote on line.

Mercury United Electronics is a Quartz Crystal Manufacturer of Frequency Control Products since 1973, including Crystals, Oscillators, Low EMI Spread Spectrum Clocks, TCXO's, VCTCXO's, VCXO's, OCXO's and Monolithic Crystal Filters with new product design, 1 to 3 week Quick-Turn capabilities & a North American sales facility in Southern California, headquartered in Taipei Taiwan with the latest state-of-the-art production equipment and a high-volume production location in Kun Shan, China. Contact Mercury at <http://www.MercuryUnited.com> or at (Telephone) 909-466-0427 (Fax) 909-466-0762.