



Ultra-low Profile Tuning Fork Offers Significant Performance in Compact Package

Fox's new SMD crystal ideal for handheld and portable applications

Fort Myers, Fla. May 2015 – Fox Electronics, a leading global supplier of frequency control solutions and an IDT company, has developed its most compact watch crystal, measuring just 1.6 mm x 1.1 mm x 0.5 mm (L x W x H).

Although smaller in size, the new **FX161** crystal operates at many of the same high standards as previous models, making it one of the most efficient tuning forks yet.

The crystal's ultra-low profile and exceptional performance optimizes the minimal space available in many portable and handheld applications, including wearable devices.

The new surface mount device (SMD) operates at a frequency of 32.768 kHz. Frequency tolerance is ± 20 ppm at 25°C with a long term of -0.046 ppm per Delta C2. Standard load capacitance is 12.5 pF, with optional 7 pF or 9 pF available.

The new tuning fork ages only ± 3 ppm in the first year, and features a termination finish of gold over nickel. Overall operating temperature range is -40°C to +85°C with a turnover temperature range of +20°C to +30°C and a storage temperature of -55°C to +125°C. Maximum soldering is 10 seconds at 260°C.

The new watch crystal sustains a maximum of 90 kilo-ohms equivalent series resistance and an insulation resistance of 500 mega-ohms at 100 VDC.