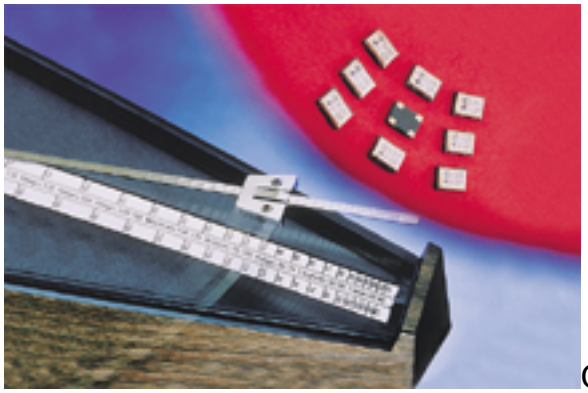
SMT Clock Oscillators



Giving designers of network systems a high frequency (100 MHz) precision timing device, AVX introduces a new series of SMT clock oscillators. Designated the K50H Series, the low-profile ultraminiature clock oscillators provide design engineers with a new option for timing control circuits. The K50H Series' electrical characteristics, reliability and frequency capabilities offer designers more flexibility in implementing timing control circuits in space-constrained applications. Today's network systems require higher frequency oscillators to modulate data transmission at a greater rate for fiber optic systems. The clock oscillators in these systems need to operate above 100 MHz and to exhibit better jitter characteristics to secure the accuracy of the data transfer. These oscillators provide effective solutions for complex portable communications equipment and high-speed datacomm network systems.
The K50H Series oscillators are available in standard frequencies for communications systems using the following protocols: Fiber Channel (106.25 MHz), Gigabit Ethernet (125.00 MHz), ATM (155.52 MHz), and 10 Gigabit Ethernet (156.25 MHz). The K50H Series is available in frequencies between 50.0 MHz and 156.52 MHz, with frequency stability to &#177 25 ppm. The K50H Series devices are made using a vertically integrated manufacturing process that ensures high quality and reliability. A ceramic package provides ample electrical ground area as well as sufficient space for bypass capacitor placement inside of the oscillator, allowing for better jitter characteristics and noise reduction. The ceramic package measures 7.0 &#215 5.0 &#215 1.6 mm.

Source URL (retrieved on *07/12/2014 - 3:05pm*):
http://www.wirelessdesignmag.com/product-releases/2001/06/smt-clock-oscillators