COTS Frequency Control Product Offering Brings World's Leading Technology to Market

NDK announces the availability of their COTS line-up of Crystals, XOs, TCXOs, VCXOs, SAW devices & FCXO modules. NDK's facilities have been qualified per MIL-STD-790 and NDK America has QPL status. The product offerings are ideal for high reliability, demanding environments like defense communications, aerospace, down hole, and maritime applications. The crystals are available in as broad an operating temperature range of -40°C to +150°C (less demanding temperatures are available) and frequencies up to 50 MHz. They feature high shock & vibration resistance and have proven themselves in on-engine automotive applications for years. They are all SMD with packaging as small as L=3.2 x W=2.5 mm making them some of the smallest COTS crystals available. The world's smallest COTS, GPS grade TCXO (temperature compensated crystal oscillator) product features a very tight frequency stability of ±0.5 ppm. The NT2016S measures just L=2.0 x W= 1.6 mm and includes an enable/disable function which allows for deactivation of the oscillator circuit thus conserving power which is particularly valuable in battery powered applications. They operate in a -30°C to +85°C temperature range on as low as 1.8 VDC supply voltage. The VCXOs (voltage controlled crystal oscillators) are available in frequencies up to 700 MHz. They have a frequency stability of ±50 ppm and with a frequency control range of ±100 ppm/+1.65 ±1.5 V. They operate in a temperature range of -40°C to +85°C with a supply voltage of +3.3 VDC providing an LVCMOS, LVPECL, or LVDS output. The SAW (surface acoustic wave) filter is a miniature 3.8 x 3.8 SMD that has proven itself in RKE (remote keyless entry) applications. Center frequencies are 315 & 433.92 MHZ (others available) featuring low insertion loss and excellent out-of-band rejection while operating in a temperature range of -40°C to +105°C. There are FCXOs (frequency controlled crystal oscillator) modules available. The NW34M25WA is a translation/synthesizer device that has a reference input HCMOS 19.44 MHz (others available), with output frequencies of LVPECL = 155.52 MHz, 77.75 MHz, Hi-Z and HCMOS of 77.75 MHz (others available). Free run accuracy is ±20 ppm on this SMD module. The NW36M25LA is an FCXO advanced Stratum 3 module. It allows up to 4 HCMOS inputs and HCMOS outputs of12.96 to 77.75 MHz, M/S 8 kHz, and a BITS_Clk. of 1.544 or 2.048 MHz.

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