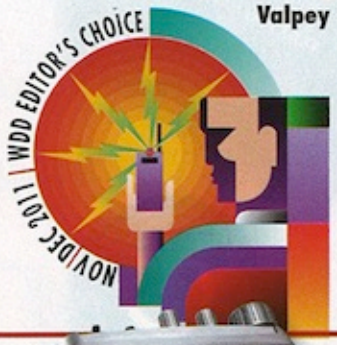
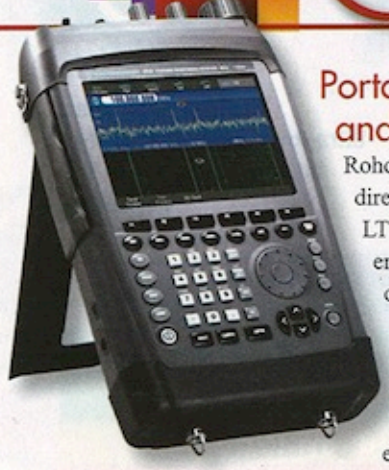
Miniature Hi-Rel/COTS Oscillator Boasts Wider Frequency Range

Valpey Fisher announced it expanded the frequency range offered in its VFH3225, presented as the industry's smallest size High Reliability/Commercial Off the Shelf (COTS) oscillator with outstanding performance for military applications. The device now works from 25MHz to 160MHz. It delivers frequency stability of ±50 ppm over -55°C to +125°C in a miniature 3.2 x 2.5 mm SMD package. Military Group A, B, or C testing is available for the device. The VFH3225 is a low-power device with CMOS output and supply voltages of 3.3V, 2.8V, 2.5V or 1.8V. Typical current consumption is as low as 8 mA and to minimize battery drain the device also has an output enable/disable option. Its miniature size, 3.2 x 2.5 mm, allows for efficient use of board space and product designs expansion.

Valpey Fisher, **www.valpeyfisher.com**



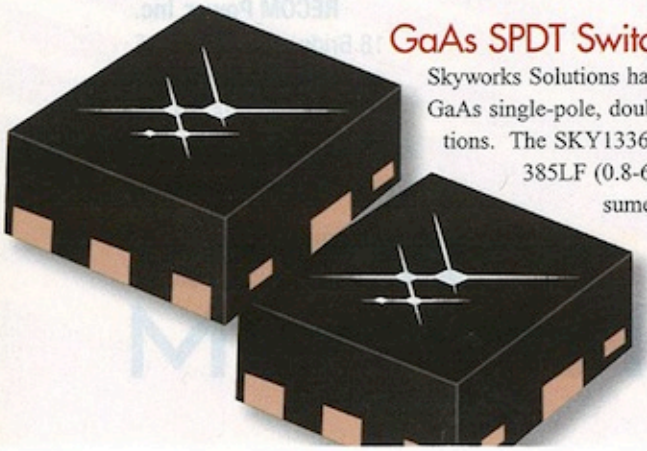
EDITOR'S CHOICE



Portable Receiver Offers Interference Detection and Spectrum Clearing

Rohde & Schwarz has developed an advanced portable receiver and directional antenna for interference detection and spectrum clearing of LTE and cable systems. The R&S PR100 Series portable receiver operates in a wide frequency range from 9 kHz to 7.5 GHz, and when combined with the HE300 Series GPS enabled directional antenna, is desirable for quickly detecting and locating sources of interference disrupting LTE and cable systems. With a compact and lightweight design, the R&S PR100 features exceptional digital signal processing that delivers high receiver sensitivity to enable detection of extremely weak signals without loss in processing speed. The directional antenna features an integrated electronic compass, in addition to GPS, to quickly detect and assist in eliminating the source of interference. The portable receiver features a built-in SD card for storage of measurements and provides LAN interface for remote control and data output. A 6.5" color screen clearly displays spectrums and spectrograms.

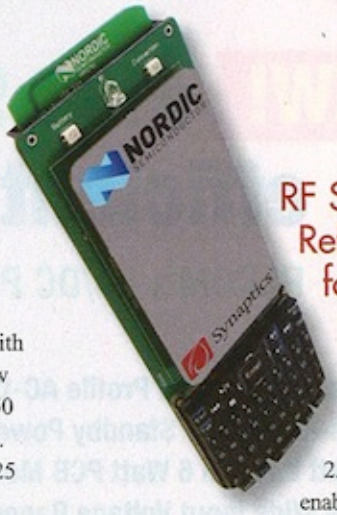
Rohde & Schwarz, **www.rohde-schwarz.us**



GaAs SPDT Switches Target WLAN Applications

Skyworks Solutions has introduced two small (1 x 1 mm packaged) GaAs single-pole, double-throw (SPDT) switches for WLAN applications. The SKY13366-378LF (2.0-6.0 GHz) and the SKY13350-385LF (0.8-6.0 GHz) switches target low power WLAN consumer premise device equipment and offer exceptional RF performance including positive voltage control, very low insertion loss, high isolation and excellent linearity.

Skyworks Solutions, **www.skyworksinc.com**



RF Smart Remote Reference Design for Advanced Browsing Control

The nRF24LE1 is a ULP system-on-chip 2.4GHz transceiver that enables single-chip implementation of wireless applications. The nRF24LE1's radio is a fully featured nRF24L01+ 2.4GHz transceiver core including Nordic's proven Enhanced ShockBurst™ hardware link layer. It delivers true ULP operation with peak currents low enough to run on coin cell batteries. The nRF24LE1 integrates an enhanced 8051 mixed signal MCU core featuring fewer clock cycles per instruction than legacy 8051 devices. Most instructions need just one or two clock cycles leading to an average performance improvement of 8X using the MIPS (Million Instructions Per Second) benchmark. This high performance combined with 16kbytes of on-chip flash and 1kbytes of SRAM ensures the processing platform is powerful enough to run both the RF protocol stack and application layer with ease.

Nordic Semiconductor, **www.nordicsemi.com**

2230-2430 MHz VCO

Crystek's CVCO55CC-2230-2430 VCO (Voltage Controlled Oscillator) operates from 2230 MHz to 2240 MHz with a control voltage range of 0.1V~4.9V. This VCO features a typical phase noise of -106 dBc/Hz @ 10KHz offset and has excellent linearity. Output power is typically +3 dBm. The model CVCO55CC-2230-2430 is packaged in the industry-standard 0.5-in. x 0.5-in. SMD package. Input voltage is 5V, with a max. current consumption of 32 mA. Pulling and Pushing are minimized to 1.0 MHz and 2.5 MHz/V, respectively. Second harmonic suppression is -15 dBc typical. The CVCO55CC-2230-2430 is ideal for use in applications such as digital radio equipment, fixed wireless access, satellite communications systems, and base stations.

Crystek Corporation, **www.crystek.com**