

Frequency Selectable XO's & VCXOs Deliver Low Noise

Low noise, frequency selectable RXO7050Q XO's and RVX7050Q VCXOs from **Rakon** come in industry standard 7x5mm surface mounting packages.

Frequency select pins are used to select output frequency from any combination of two or four pre-configured frequencies, increasing design flexibility

Spider PD Trio Switches On For Fast Ethernet

Three new unmanaged, low cost Spider Series switches from **Belden** join the Hirschmann product range. They support Fast Ethernet and have either five twisted pair ports - Spider 5TX PD EEC - or one twisted pair port and one fibreoptic port for multimode - Spider 1TX/1FX-MM PD EEC or single mode optical fibre - Spider 1TX/1FX-SM PD EEC.

Other features include IP30 protection, a strong metal housing and an extended temperature range from -40~+70°C. All versions are PoE powered so there is no need for a separate PSU or socket, enabling the switches to be

VCOs Are SMD Packaged

CVCO55CW-3050-4250 VCOs operate over 3050~4250MHz with a control voltage range of 1.5V~18.5V. These **Crystek** VCOs feature a typical phase noise of -85dBc/

and reducing component count whilst generating significant cost savings.

RXO7050Q and RVX7050Q output 8MHz~1.5GHz with <1ps RMS phase jitter integrated over 12kHz~20MHz, to address high speed serial data communications, networking and telecom applications.

The Q Series provides a low cost, pin compatible alternative to SiLabs Si5xx selectable oscillators, says the company, and smaller footprints will soon be available.

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used wherever a PoE port is available, allowing flexible network expansion.

The switches meet relevant industry standards and are E13 registered for motor vehicles. They can be used to create locally structured networks with short distances to the various terminals. The two versions with fibreoptic ports also enable distances up to 2km in multimode to be covered or 30km single mode. In each case, the optical ports are designed for SC connectors and the twisted-pairs for RJ45s.

All switches can be mounted on DIN rails and plug&work for fast up and running. The compact 100x25x70mm housing makes for integration without problem in distribution boxes.

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Hz at 10kHz offset and exhibit excellent linearity. Output power is typically +1.5dBm.

The VCOs are industry standard 0.5x0.5in SMD packaged. Input voltage is 5V, with a maximum current consumption of 16mA. Pulling and pushing are minimised to 5MHz and 5MHz/V, respectively.

Second harmonic suppression is typically -15dBc. CVCO55CW-3050-4250 is deemed ideal for use in digital radio equipment, fixed wireless access, satellite communications systems and base stations.

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Tantalum Stacks Capacitor Insight

☞ DigiKey introduces Kemet's MnO2 Series tantalum stacks and discusses the important product characteristics and benefits.

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Illuminated Switches Push The Buttons For Splash & Vandal-Proofing

AH Series 19mm pushbutton switches from **CIT Relay & Switch** are panel mounting momentary designs with SPST NO plus SPST NC operation. The series is splash and vandal proof, and come in flush actuator styles with non-illuminated, bi-colour ring or dot illumination. Bi-coloured illumination choices are red, yellow, green, blue, white and orange

Electrical ratings are 1A at 24Vdc, 1A at 125Vac and 0.5A at 250Vac. The switches are IP65 sealed and electrical life is 50,000 cycles. Contact resistance is less than 50mΩ and actuation force is 550±50g with an actuator travel of 2.5±0.3mm. Dielectric Strength is 2kVrms contact to contact with 2kVrms contact to LED. Insulation resistance is >100MΩ.

AH switches are ideal for a broad variety of application, automotive and industrial applications.

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Matchless GPS Performance Crystal Solution Is PXC0 Alternative

Addressing cost vs performance requirements in the growing consumer GPS market, **Rakon's** RXT2520AT crystal solution enables high performance for specific GPS and cellular communications as an alternative to a TCXO. It incorporates a thermistor with a traditional quartz crystal and the combination of GPS crystal manufacturing combined with the ability to perform high resolution frequency vs temperature testing in mass production, is said to deliver matchless performance.

RXT2520AT comprises a 2.5x2mm high performing AT cut crystal with a thermistor for temperature sensing in a single ceramic package. This achieves the required thermal coupling between thermistor and crystal and occupies less board space. It is manufactured to specified temperature characteristics and available in frequencies of 19.2~52MHz operating over -30~+85°C and -40~+105°C.

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