Fox Application Specific XpressO Oscillators Optimized for Gigabit Ethernet Configurations

Fox Electronics recently announced a new line of XpressO oscillators explicitly designed to meet the needs of Gigabit Ethernet (GbE) and 10 GbE applications. Each model in the new Application Specific XpressO line is off-the-shelf, pre-configured to precise application-specific requirements in an industry standard 7 mm x 5 mm package.

The series is the first to combine Fox's patented breakthrough XpressO technology with the specific characteristics required to meet the demanding needs of 3.3 V (±5% standard) Ethernet-specific applications to ensure the best performance possible without the wait associated with custom products. XpressO technology offers fast delivery of low jitter, small package size and multiple frequency and output options at a low cost. Designed and developed by Fox, XpressO oscillators utilize a family of proprietary application specific integrated circuits (ASICs) with a key focus on noise reduction.

Fox's new Ethernet specific XO oscillators offer a frequency stability of ±50 ppm, with tighter stabilities available upon request and are available in 125.00 MHz, 156.25 MHz and 312.50 MHz models. HCMOS, LVPECL and LVDS outputs are available on the 125.00 MHz and 156.25 MHz models while LVPECL and LVDS outputs are available on the 312.50 MHz model. The XpressO oscillators offer a tri-state enable/disable feature, allowing the user to turn the output on and off. Output enable/disable time is less than 100 nS.

Each XpressO crystal oscillator model features an operating temperature range of -40°C to +85°C and a storage temperature range of -55°C to +125°C. At 12 kHz to 20 MHz, typical phase jitter is 0.75 pS RMS for the 125.00 MHz model, 0.77 pS RMS for 156.25 MHz and 0.86 pS RMS for 312.50 MHz. Start up time is 10 mS. The new XpressO oscillators feature gold over nickel termination finish.

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