Fast-make programmable oscillators feature class-leading phase jitter performance

The short lead-times offered by programmable oscillators are typically offset by relatively poor performance in comparison to standard crystal oscillators, especially as regards phase noise and jitter. IQD’s two new ranges of programmable oscillators offer the best of both worlds with phase jitter performance comparable to traditional crystal oscillators combined with lead-times as short as 3 days.

Both models, the IQXP-20 clock oscillator and the IQXP-30 voltage controlled oscillator, offer RMS phase jitter down to 0.4ps across all output types. A very wide frequency range from 10.0MHz up to 1.5GHz is available from along with HCMOS output capable of driving 15pF; LVPECL & LVDS outputs are also available at the higher frequencies.

Frequency stabilities down to ±10ppm and operating temperature ranges out to -40 to +85 degrees C are available along with the option to specify all inclusive stabilities including temperature range, supply variations, load variations and 15 years ageing at 25°C. Customers can choose from 2.5V or 3.3V supply for both models, both of which are housed in a 5.0 x 3.2mm hermetically sealed ceramic package only 1.2mm high

The IQXP-30 VCXOs are available with a total pull range of ±50ppm minimum and a control voltage nominal of 1.65V.

With such a wide frequency range, low phase jitter performance, short lead-times and competitive prices, both models are ideal for use by design engineers on new projects where design-in samples are required on short lead-times as well as for use in mass production in a wide range of applications including Gigabit Ethernet, Video, Telecoms, SCSI, SAS & SATA.

www.iqdfrequencyproducts.com [1]

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