



## PRESS RELEASE

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FOR IMMEDIATE RELEASE

### Extended Temperature Range for TCXOs in Extreme Conditions

IQD's IQXT-200 and IQXT-210 TCXOs now offer an extended operating temperature range of -40 to 105 °C with exceptionally tight stability. This wide temperature range is particularly appropriate for applications that are exposed to extreme environments and high temperatures such as portable radio systems for fire fighters, oil & gas industries and IoT. However, it is not only the ambient temperature that requires oscillators up to 105 °C, but also the self-heating of other components that are placed close to the oscillator in the application in an enclosure.

The IQXT-200 is available in a 7.0 x 5.0 mm package with a stability of  $\pm 50$  ppb or  $\pm 280$  ppb over this wide temperature range. The IQXT-210, in the smaller 5.0 x 3.2 mm package, is now offered with a stability as tight as  $\pm 280$  ppb over -40 to 105 °C. The four standard frequencies available are 10.0 MHz, 19.2 MHz, 20.0 MHz and 38.88 MHz however, others may be available upon request.

Both models are specified with a 3.3 V supply voltage and an HCMOS output, while having a current draw of only 10 mA max. The current draw of these TCXOs is 90 % less than comparable standard OCXOs. Moreover, due to technical functionality, OCXOs cannot be offered at the extended temperature range of -40 to 105 °C. This is why the IQXT-200 and IQXT-210 offer the ideal solution for applications within extreme temperature conditions where tight stabilities are essential.

These oscillators can also be specified to include a pulling range of  $\pm 8$ ppm min. and their frequency can be adjusted by a fixed amount for various applications, which also allows for remote applications.

The IQXT-200 and IQXT-210 are primarily designed for communication and IoT applications. With the tight stability, they secure stable timing for applications such as small cells, Fibre Optic Networking (PON), Network Routers and Switches, 5G Base Stations, Backhaul Infrastructure, Wi-Fi and various other kinds of communication.

Both models are RoHS compliant, reflow soldering compatible and supplied on Tape & Reel. Further information and the full data sheets are now available at [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com).

IQD's TCXO series also includes IQXT-350, IQXT-205-1, IQXT-205-2, IQXT-194, IQXT-191, IQXT-190, IQXT-210, IQMT-100, IQXT-200, IQXT-316, CFPT-125 and CFPT-126. Find out more at [www.iqdfrequencyproducts.com/products/tcxo-vctcxo](http://www.iqdfrequencyproducts.com/products/tcxo-vctcxo)

#### Notes for Editors:

IQD has been a recognised market leader in the frequency products market for nearly 50 years. The company has invested in its design and technical measurement capabilities at its head office in the UK, which also acts as the centre of excellence for frequency products within the Würth Elektronik eiSos Group.

This ensures that customers and interested parties can be offered the best possible service that IQD and Würth Elektronik eiSos are widely known for. This service, combined with excellent quality and reliability, makes IQD the best choice for your timing requirements.



With active customers in over 80 countries, IQD offers one of the most comprehensive frequency product ranges available, from low cost commercial grade product to that used in high reliability industrial and automotive applications including: Quartz Crystals, Clock Oscillators, AEC-Q200 Crystals & Oscillators, VCXOs, TCXOs, OCVCOSs & OCXOs, GPS Disciplined OCXOs, and Rubidium Oscillators.

Manufacturing capacity totals over 40 million units per month covering quantities from one off specials to multi-million unit orders. In addition, IQD offers customers a range of engineering support services including: application support, custom product design, sample development, electrical testing & screening, frequency/temperature testing, accelerated ageing, circuit characterisation and MTIE/TDEV testing. IQD's products are specified by leading manufacturers in the aerospace, automotive, communications, computing, consumer and industrial industries throughout the world. The full range of products is available direct through sales offices or via an extensive worldwide distribution network. For more information, visit [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com).

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