

DISCIPLINED OSCILLATORS

Advanced GPS clock modules with reliable holdover

Disciplined OCXOs offer advanced timing functionality for distributed network systems. They provide a holdover function for a 1PPS timing synchronisation signal, which may be produced by a GNSS frequency receiver or other source. The DOCXO is a reliable option for cover during source signal interruptions.

Typical applications include: Isolated timing synchronization, Smart power grids, 4G/5G LTE Base stations, MiFID II Compliance, GNSS/GPS Timing Outage Protection, IEEE 1588 (PTP) Compliant Boundary Clocks, Transparent Clocks.

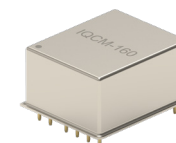
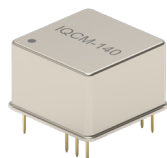


To find out more visit: www.iqdfrequencyproducts.com

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Contact our experts

Call our technical support team for advice on the right part for your design



| | IQCM-140 | IQCM-200 | IQCM-112 | IQCM-160 |
|---|---|---|---|--|
| Key Features | 1pps & 10MHz output Frequency stability ± 5ppb | 1pps & 10MHz output Frequency stability ± 0.2ppb | 1pps & 10MHz output Integrated GNSS receiver | 1pps & 10MHz output Frequency stability ± 0.05ppb |
| Package Size (mm) | 20.2 x 20.2 x 12.4 | 51.0 x 51.0 x 13.0 | 60.0 x 60.0 x 13.0 | 25.0 x 30.0 x 15.0 |
| Holdover Stability | <20 µs / 24hrs | <1.5 µs / 24hrs | <1.5 µs / 24hrs | <1.5 µs / 8hrs |
| Frequency | 10 MHz | 10 MHz | 10 MHz | 10 MHz |
| Ageing | ± 0.3 ppb / day | ± 0.2 ppb / day | ± 0.2 ppb / day | ± 0.5 ppb / day |
| Supply Voltage | 3.3 V | 5 V | 5 V | 3.3 V |
| Current Consumption (Steady State) | <600 mA | <600 mA | <1 A | <750 A |
| Data Output | Status word | Status word | NMEA data | Status word |

Quality & Compliance

IQD is committed to ensuring the highest level of quality & environmental consideration in its products and services and to continual improvement throughout all levels of the business.

IQD has implemented and maintains a fully integrated quality & environmental management system in accordance with the requirements of ISO 9001:2015 & ISO 14001:2015.

IQD Technical Support Services

We have a dedicated engineering and application test facility in the UK exclusively to support our customers, including:

- Crystal parameters including FR, FL, CO, C1, Trim, R1
- Oscillator parameters including F, current draw, output characteristics
- Frequency behaviours over temperature (stability)
- Phase noise and phase jitter
- Short term stability
- Accelerated ageing
- Circuit characterisation
- MTIE/TDEV testing



About IQD

IQD offers one of the most comprehensive frequency product ranges available; from low cost commercial grade timing devices to those used in high reliability industrial and automotive applications including: Quartz Crystals, Clock Oscillators, AEC-Q200 Crystals & Oscillators, VCXOs, TCXOs, OCVCXOs & OCXOs, GPS Disciplined OCXOs, and Rubidium Oscillators.

IQD has been a recognised market leader in the frequency products market since 1973 and we continually invest in design and technical measurement capabilities at our head office in the UK, which also acts as the centre of excellence for frequency products within the Würth Elektronik eiSos Group. This service, combined with excellent product quality and reliability, makes IQD the best choice for your frequency product and timing requirements.



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SCAN FOR DATASHEETS

