

Low Phase Noise Oscillators

IQXO-408

IQXO-455



Key Features

- Phase noise as low as -105 dBc/Hz @ 10 Hz &
- -174 dBc/Hz @ 100 kHz
- Supply Voltages 1.8 V, 2.5 V & 3.3 V
- Industry standard packages of 2.5 x 2.0 mm & 3.2 x 2.5 mm

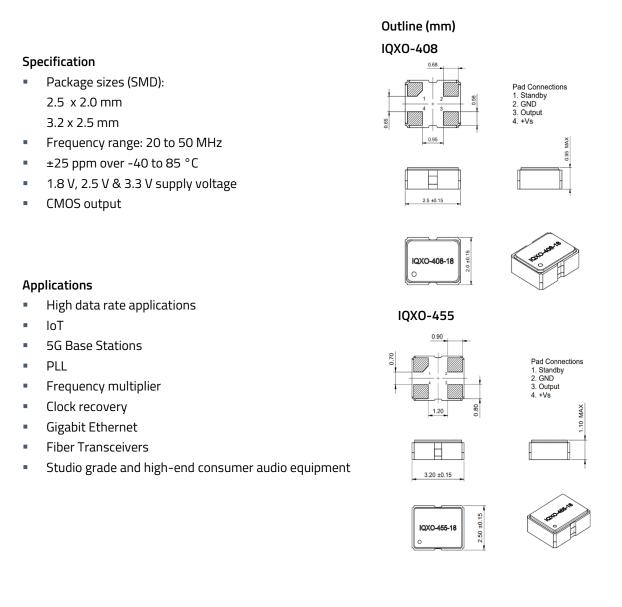


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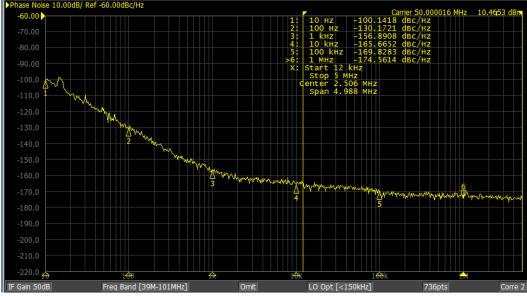
As application requirements drive the need for greater data rates, more oscillator devices with ultra-low phase noise are required. This type of application is especially prevalent in today's connected world.

IQD is pleased to launch its newest low phase noise oscillators, the IQXO-408 & IQXO-455, available in industry standard packages of 2.5 x 2.0 mm and 3.2 x 2.5 mm.

The new CMOS clock oscillators can perform with a close in phase noise as low as -105 dBc/Hz @ 10 Hz and far out phase noise as low as -174 dBc/Hz @ 100 kHz (3.3 V, 20 MHz, IQXO-408). The low phase noise oscillators are available at either 1.8 V, 2.5 V or 3.3 V with a phase jitter down to 40 fs RMS (over 12 kHz to 5 MHz).







Phase Noise @ 50 MHz

| Model | Part Number | Package Size | Output | Frequency | Stability | Operating Temp. Range | Voltage |
|----------|--------------|---------------------|--------|-----------|-----------|--------------------------|---------|
| IQX0-455 | LFSPX0084652 | 3.2 x 2.5 x 0.95 mm | CMOS | 24 MHz | ±25 ppm | -40 to 85°C | 1.8 V |
| IQX0-455 | LFSPX0084654 | 3.2 x 2.5 x 0.95 mm | CMOS | 25 MHz | ±25 ppm | -40 to 85°C | 1.8 V |
| IQX0-455 | LFSPX0084655 | 3.2 x 2.5 x 0.95 mm | CMOS | 38.4 MHz | ±25 ppm | -40 to 85°C | 1.8 V |
| IQX0-455 | LFSPX0084656 | 3.2 x 2.5 x 0.95 mm | CMOS | 50 MHz | ±25 ppm | -40 to 85°C | 1.8 V |
| IQX0-455 | LFSPX0084657 | 3.2 x 2.5 x 0.95 mm | CMOS | 24 MHz | ±25 ppm | -40 to 85°C | 3.3 V |
| IQX0-455 | LFSPX0084658 | 3.2 x 2.5 x 0.95 mm | CMOS | 25 MHz | ±25 ppm | -40 to 85°C | 3.3 V |
| IQX0-455 | LFSPX0084659 | 3.2 x 2.5 x 0.95 mm | CMOS | 38.4 MHz | ±25 ppm | -40 to 85°C | 3.3 V |
| IQX0-455 | LFSPX0084660 | 3.2 x 2.5 x 0.95 mm | CMOS | 50 MHz | ±25 ppm | -40 to 85°C | 3.3 V |

For other specifications, please contact IQD.

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Parts available: