

IQXO-100, -200, -500

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Output Compatibility

- TTL

Holder Style

- 14-pin DIL compatible resistance welded enclosure, hermetically sealed with glass to metal seals.

Standard Frequency Stabilities

- $\pm 25\text{ppm}$, $\pm 50\text{ppm}$, $\pm 100\text{ppm}$
(inclusive of supply voltage variations over the standard operating temperature range)

Standard Operating Temperature Range

- 0 to 70°C

Standard Storage Temperature Range

- -55 to 125°C

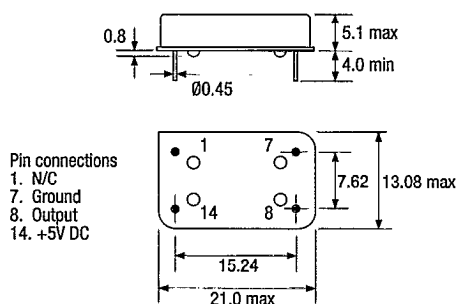
Marking

- Type number (letters IQ may not be included)
- Frequency
- Date code (Year/Week)
- Frequency stability (as part of type number)
- 1st Letter (overall stability)
A = $\pm 25\text{ppm}$, B = $\pm 50\text{ppm}$, C = $\pm 100\text{ppm}$
- 2nd Letter (initial frequency tolerance where applicable)
D = $\pm 5\text{ppm}$, E = $\pm 10\text{ppm}$, F = $\pm 25\text{ppm}$

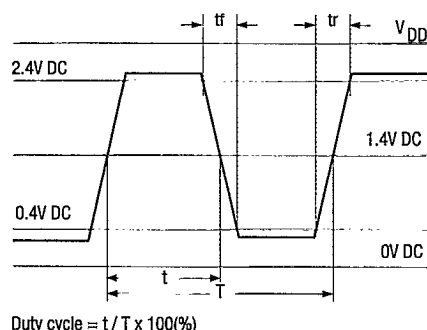
Non-Standard Frequency Tolerance at 25°C

- $\pm 5\text{ppm}$, $\pm 10\text{ppm}$, $\pm 25\text{ppm}$

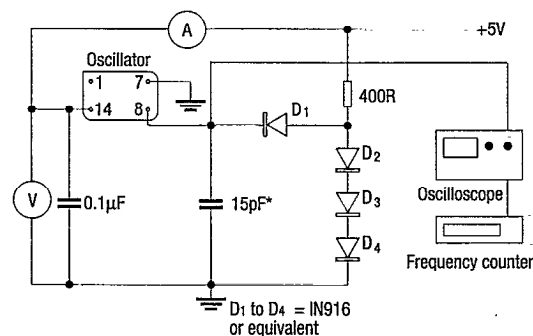
Outline



Output Waveform



Test Circuit



*Inclusive of jiggging & equipment Capacitance

Electrical Specification – maximum limiting values when measured in test circuit

Frequency Range	Frequency Stability	Supply Voltage	Supply Current	Rise Time (t _r)	Fall Time (t _f)	Duty Cycle	Model Number
250.0kHz to 3.999MHz	±25, ±50 & ±100ppm	5V±0.5V	50mA	15ns	15ns	45 to 55%	IQX0-200
4.0 to 29.999MHz	±25, ±50 & ±100ppm	5V±0.5V	40mA	10ns	10ns	40 to 60%	IQX0-100
30.0 to 49.999MHz	±25, ±50 & ±100ppm	5V±0.5V	60mA	8ns	8ns	40 to 60%	IQX0-500
50.0 to 70.0MHz	±25, ±50 & ±100ppm	5V±0.5V	65mA	8ns	8ns	40 to 60%	IQX0-500

CLOCK
OSCILLATORS