

IQXO-100, -200, -500

ISSUE 5; 23 SEPTEMBER 1994

Outline

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

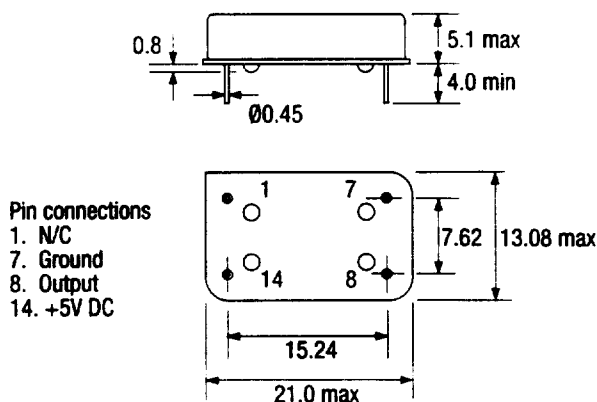
- -55 to 125°C

Marking

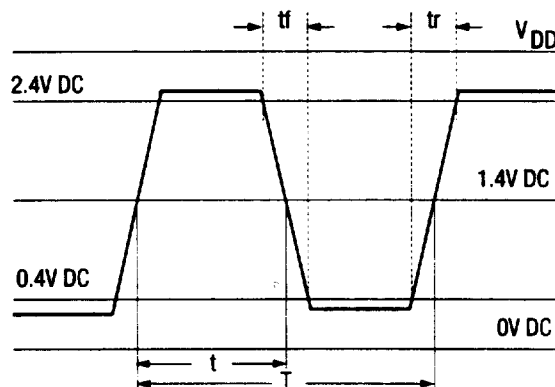
- Type number (letters IQ may not be included)
- Frequency
- Date code (Year/Week)
- Frequency stability (as part of type number)
- 1st Letter (overall stability)
A = $\pm 25\text{ppm}$, B = $\pm 50\text{ppm}$, C = $\pm 100\text{ppm}$
- 2nd Letter (initial frequency tolerance where applicable)
D = $\pm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

Non-Standard Frequency Tolerance at 25°C

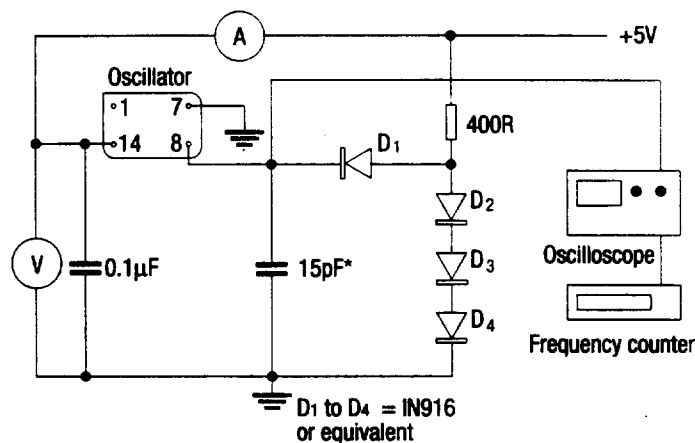
- $\pm 5\text{ppm}$, $\pm 10\text{ppm}$, $\pm 25\text{ppm}$



Output Waveform



Test Circuit



*Inclusive of jigging & 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 & ± 100 ppm	5V \pm 0.5V	50mA	15ns	15ns	45 to 55%	IQX0-200
4.0 to 29.999MHz	± 25 , ± 50 & ± 100 ppm	5V \pm 0.5V	40mA	10ns	10ns	40 to 60%	IQX0-100
30.0 to 49.999MHz	± 25 , ± 50 & ± 100 ppm	5V \pm 0.5V	60mA	8ns	8ns	40 to 60%	IQX0-500
50.0 to 70.0MHz	± 25 , ± 50 & ± 100 ppm	5V \pm 0.5V	65mA	8ns	8ns	40 to 60%	IQX0-500

Frequency	Type	Frequency Stability	Model No.	Stock No.
19.66080MHz	TTL	100ppm	IQX0-100C	X113A
19.66080MHz	HCMOS/LS TTL	100ppm	IQX0-350C	X364A
20.0MHz	TTL	100ppm	IQX0-100C	X109A
20.0MHz	TTL	100ppm	IQX0-100M	X109B
20.0MHz	HCMOS/LS TTL	100ppm	IQX0-350C	X356A
24.0MHz	TTL	100ppm	IQX0-100C	X114A
24.0MHz	TTL	100ppm	IQX0-100M	X114B
24.0MHz	HCMOS/LS TTL	100ppm	IQX0-350C	X371A
24.5760MHz	TTL	100ppm	IQX0-100C	X116A
25.0MHz	TTL	100ppm	IQX0-100C	X120A
25.0MHz	TTL	100ppm	IQX0-100M	X120B
25.1750MHz	TTL	100ppm	IQX0-100C	X127A
26.0MHz	TTL	100ppm	IQX0-100C	E109A
28.3220MHz	TTL	100ppm	IQX0-100C	X128A
28.6360MHz	TTL	100ppm	IQX0-100C	X126A
29.49120MHz	TTL	100ppm	IQX0-100C	X129A
30.0MHz	TTL	100ppm	IQX0-500C	X505A
32.0MHz	TTL	100ppm	IQX0-500C	X501A
32.0MHz	HCMOS/LS TTL	100ppm	IQX0-350C	X360A
32.7680MHz	TTL	100ppm	IQX0-500C	X508A
33.330MHz	TTL	100ppm	IQX0-500C	X512A
33.86880MHz	TTL	100ppm	IQX0-500C	X515A
40.0MHz	TTL	100ppm	IQX0-500C	X502A
40.0MHz	TTL	100ppm	IQX0-500M	X502B
40.0MHz	HCMOS/LS TTL	100ppm	IQX0-350C	X357A
48.0MHz	TTL	100ppm	IQX0-500C	X503A
50.0MHz	TTL	100ppm	IQX0-500C	X511A
50.0MHz	TTL	100ppm	IQX0-500M	X511B
50.0MHz	HCMOS/LS TTL	100ppm	IQX0-350C	X358A
54.0MHz	TTL	100ppm	IQX0-500C	E127A
60.0MHz	TTL	100ppm	IQX0-500C	X504A
64.0MHz	TTL	100ppm	IQX0-500C	X513A
65.5360MHz	LS-TTL	100ppm	IQX0-351C	X372A
66.0MHz	HCMOS/LS TTL	100ppm	IQX0-350C	X368A
72.0MHz	HCMOS/LS TTL	100ppm	IQX0-133C	X509B
80.0MHz	TTL	100ppm	IQX0-500C	X510A
80.0MHz	ECL	100ppm	IQX0-900C	X901A
100.0MHz	ECL	100ppm	IQX0-910C	X902A
110.0MHz	ECL	100ppm	IQX0-900C	X904A
120.0MHz	ECL	100ppm	IQX0-900C	X903A