IQVCXO-172, -173, -174

ISSUE 10; 13 OCTOBER 2004

Delivery Options

Please contact our sales office for current leadtimes

- **Output Compatibility**
- HCMOS/LSTTL
- Drive Capability: 15pF/10LSTTL

Package Outline

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

Standard Frequency Stabilities

 ±25ppm, ±50ppm, ±100ppm @ V_c = 2.5V (inclusive of supply voltage & output load variations over the operating temperature range)

Operating Temperature Ranges

- 0 to 70°C
- -40 to 85°C

Storage Temperature Range

■ -55 to 125°C

Output Frequency Change

- ±50ppm min (IQVCXO-172)
- ±100ppm min (IQVCXO-173)
- ±200ppm min (IQVCXO-174)

Voltage Control Pin 1

2.5V ±2.0V

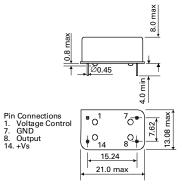
Marking

- Model number
- Operating temperature Code (if applicable)
- Frequency Stability Code
- Frequency
- Date Code (Year/Week)

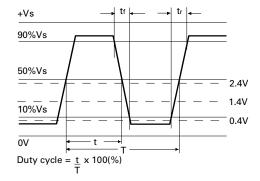
Minimum Order Information Required

 Frequency + Model Number + Operating Temperature Code (if applicable) + Frequency Stability

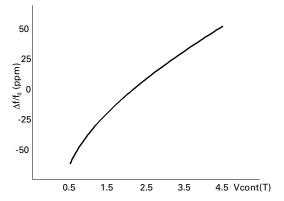
Outline in mm



Output Waveform - HCMOS/LS TTL



Typical Voltage Control Curve @ 25°C & 20.0 MHz (IQVCXO-172)



Frequency Range	Frequency Stability	Supply Voltage	Output Frequency Change	Supply Current	Rise Time(t _r)	Fall Time(t _f)	Duty Cycle	Model Number
1.0 to < 24.0MHz	±25ppm	5V±0.25V	±50ppm min	20mA	10ns	10ns	40/60%	IQVCX0-172 IQVCX0-172
1.0 to < 24.0MHz	±25ppm ±50ppm	5V±0.25V	±100ppm min	20mA	10ns	10ns	40/60%	IQVCX0-173 IQVCX0-173I
1.0 to < 24.0MHz	±25ppm ±50ppm ±100ppm	5V±0.25V	±200ppm min	20mA	10ns	10ns	40/60%	IQVCX0-174 IQVCX0-174I
24.0 to 45.0MHz	±25ppm	5V±0.25V	±50ppm min	40mA	10ns	10ns	40/60%	IQVCX0-172 IQVCX0-172
24.0 to 45.0MHz	±25ppm ±50ppm	5V±0.25V	±100ppm min	40mA	10ns	10ns	40/60%	IQVCX0-173 IQVCX0-1731
24.0 to 45.0MHz	±25ppm ±50ppm ±100ppm	5V±0.25V	±200ppm min	40mA	10ns	10ns	40/60%	IQVCX0-174 IQVCX0-174I

Electrical Specifications - maximum limiting values when measured in HCMOS test circuit.

Ordering Example

22.0MHz IQVCXO-172 L C

Frequency Model number

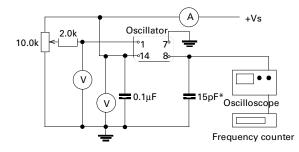
Operating Temperature Code: I = -40 to 85°C; Not applicable for 0 to 70°C

Frequency Stability: $A = \pm 25$ ppm, $B = \pm 50$ ppm, $C = \pm 100$ ppm –

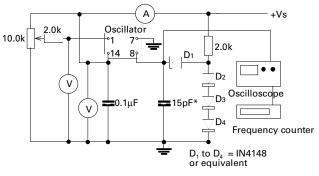
Note: some specifications may not be available, please contact our sales office.

Test Circuit - HCMOS

Test Circuit - LS TTL



*Inclusive of jigging & equipment capacitance



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LEADED VCXOs