IQXO-331, -336 Commercial Oscillator

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Delivery Options

Please contact our sales office for current leadtimes

- **Output Compatibility**
- ACMOS/TTL
- Drive Capability: 50pF (70.0 to 110.0MHz) 15pF (>110.0 to 150.0MHz) 10TTL
- Non tri-state (IQXO-336, -336I)
- Tri-state (IQXO-331, 331I)

Package Outline

 14-pin DIL compatible resistance welded enclosure, hermetically sealed with glass to metal seal. Available over 0 to 70°C (IQXO-331, -336) or -40 to 85°C (IQXO-331I, -336I)

Standard Frequency Stabilities

- ±25ppm, ±50ppm, ±100ppm
- (over operating temperature range)

Operating Temperature Ranges

- 0 to 70°C (IQXO-331, -336)
- -40 to 85°C (IQXO-3311, -336I)

Storage Temperature Range

■ -55 to 125°C

Environmental Specification

- Terminal Strength: 0.91kg max. Force perpendicular to top & bottom
- Hermetic Seal: not to exceed 1 x 10-8 mBar litres of Helium leakage
- Solderability: MIL-STD-202E, Method 208C
- Vibration: 10 to 55Hz 0.76mm displacement, sweep 60 seconds, duration 2 hours
- Rapid Change of Temperature over Operating Temperature Range: 10 cycles
- Shock: 981m/s² for 6ms, three shocks in each direction along the three mutually perpendicular planes

Tri-state Operation (IQXO-331, -331I)

- Logic '0' to pin 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
- No connection or Logic '1' to pin 1 enables oscillator output
- Maximum 'pull-down' resistance required to disable output = 20kΩ

Marking

- Model number + Operating Temperature Code (if applicable)
- Frequency Stability Code
- Frequency Tolerance Code (Optional)
- Frequency
- Date Code (Year/Week)

Minimum Order Information Required

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

Outline in mm



Output Waveform - ACMOS/TTL



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

Frequency Range	Frequency Stability	Supply Voltage	Supply Current	Rise Time(t _r)	Fall Time(t _f)	Duty Cycle	Model Number
70.0 to < 90.0MHz	±25ppm, ±50ppm, ±100ppm	5V±0.25V	45mA	3ns	3ns	40/60%	IQXO-331, -331I -336, -336I
90.0 to < 115.0MHz	±25ppm, ±50ppm, ±100ppm	5V±0.25V	60mA	3ns	3ns	40/60%	IQXO-331, -331I -336, -336I
115.0 to 150.0MHz	±25ppm, ±50ppm, ±100ppm	5V±0.25V	65mA	3ns	3ns	40/60%	IQXO-331, -331I -336, -336I
Ordering Example 75.0MHz IQXO-3311 B Frequency							

LEADED SPX0s

Test Circuit - ACMOS



Note: Pin 1 = No connection on non tri-state models