

IQXO-53, -57 SMD CLOCK OSCILLATORS

ISSUE 14; 1 NOVEMBER 2008 - RoHS 2002/95/EC

Description

- 5.0V surface mount oscillator in a 'J' lead plastic package

Fast Make Capability

- Please see CFPP-57 series Programmable Oscillators for nearest equivalent fast make parts

Package Outline

- 13 x 9mm

Frequency Range

- 1 to 60MHz

Output Compatibility & Load

- HCMOS
- Drive Capability 15pF max
- Tri-state (IQXO-57, -57I)
- Non tri-state (IQXO-53, -53I)

Standard Frequency Stabilities

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

Operating Temperature Range

- 0 to 70°C (IQXO-53, -57)
- 40 to 85°C (IQXO-53I, -57I)

Storage Temperature Range

- 50 to 125°C

Tri-state Operation

- Logic '1' (2.0Vmin) to pad 1 enables oscillator output,
- Logic '0' (0.8Vmax) to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
- No connection to pad 1 enables oscillator output
- When oscillator is enabled, maximum transition time = 100ns

Marking Includes

- Model Number + Frequency + Date Code

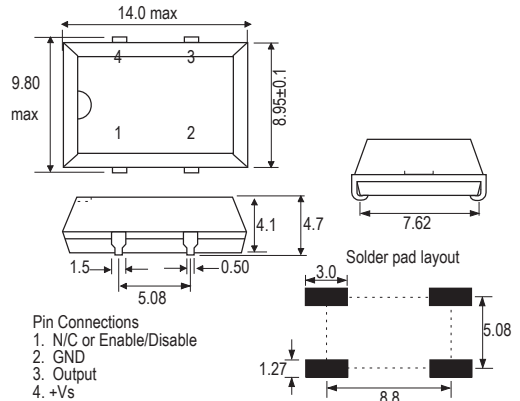
Packaging

- Bulk or Tape and Reel

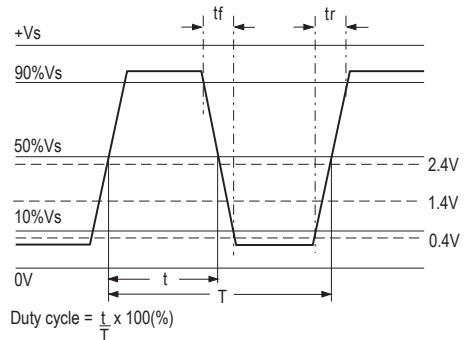
Minimum Order Information Required

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

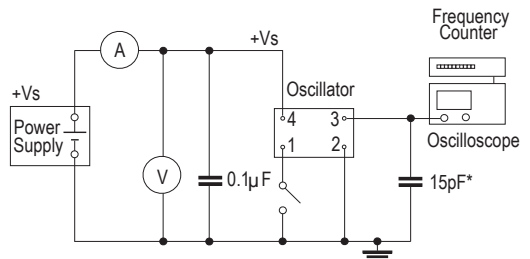
Outline (mm)



Output Waveform



Test Circuit



Inclusive of jiggig and equipment capacitance

Electrical Specifications - maximum limiting values

Frequency Range	Frequency Stability	Supply Voltage	Supply Current	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Model Number
1.0 to < 26.0MHz	±50ppm, ±100ppm	5.0V ±0.5V	15mA	8ns	8ns	40/60%	IQXO-53, 53I, 57, 57I
26.0 to < 40.0MHz			30mA				
40.0 to < 50.0MHz			38mA	6ns	6ns		
50.0 to 60.0MHz							

Ordering Example

Frequency

Model Number: 57, 57I = Tri-state; 53, 53I = Non Tri-state

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

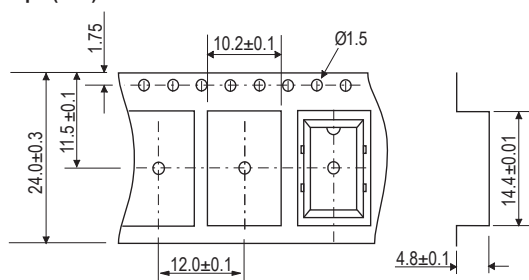
Frequency Stability: B = $\pm 50\text{ppm}$; C = $\pm 100\text{ppm}$

24.0MHz IQXO-57 I C

Please note that the rise and fall times listed are the maximum values we specify to cover various frequency breaks. In practice the actual values are generally lower depending upon the spot frequency chosen. For typical values please contact our sales office.

For higher frequencies than shown above, please see our CFP-57 Programmable Oscillator series.

Tape (mm)



Reel (mm)

