IQXO-53, -57 SMD CLOCK OSCILLATORS

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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

 ±50ppm, ±100ppm (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

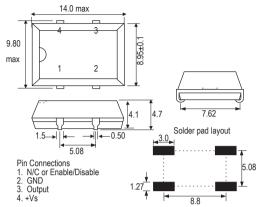
Bulk or Tape and Reel

Minimum Order Information Required

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

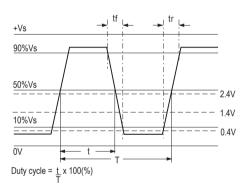
Outline (mm)

www.DataSheet4U.com

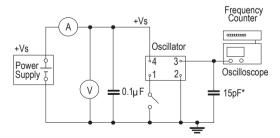


Note: Pin 1 = No connection on non tri-state models

Output Waveform



Test Circuit



Inclusive of jigging 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,
26.0 to < 40.0MHz			30mA				57, 571
40.0 to < 50.0MHz				6ns	6ns		
50.0 to 60.0MHz			38mA				

Ordering Example

Frequency

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

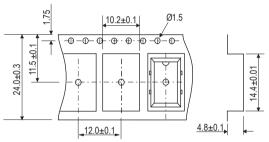
Operating Temperature Code: I = -40 to 85°C: Not applicable for 0 to 70°C

Frequency Stability: B = ±50ppm; C = ±100ppm

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 CFPP-57 Programmable Oscillator series.

Tape (mm)



Reel (mm)

