IQXO-53, -57

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Delivery Options

 Common frequencies are available from stock. Please see stock list or contact sales office

Output Compatibility

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

Package Outline

 SMD plastic encapsulated device. Available over 0 to 70°C (IQXO-53, -57) or -40 to 85°C (IQXO-53I, -57I)

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 Control

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

Solder Conditions

 For typical soldering conditions, please see the relevant pages in Applications Notes

Marking

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

Minimum Order Information Required

 Frequency + Model Number + Frequency Stability + Operating Temperature Range (if applicable) Please refer to our programmable oscillator chapter for fast make products

Outline in mm



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

Output Waveform - HCMOS/LS TTL



Test Circuit - HCMOS



*Inclusive of jigging & equipment capacitance Note: Pad 1 = No connection on non tri-state models

| 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 | 5V±0.5V | 15mA | 8ns | 8ns | 40/60% | IQXO-53, 53I 57, 57I |
| 26.0 to < 40.0MHz | ±50ppm, ±100ppm | 5V±0.5V | 30mA | 8ns | 8ns | 40/60% | IQXO-53, 53I 57, 57I |
| 40.0 to < 50.0MHz | ±50ppm, ±100ppm | 5V±0.5V | 30mA | 6ns | 6ns | 40/60% | IQXO-53, 53I 57, 57I |
| 50.0 to 60.0MHz | ±50ppm, ±100ppm | 5V±0.5V | 38mA | 6ns | 6ns | 40/60% | IQXO-53, 53I 57, 57I |
| Ordering Example 24.0MHz IQX0-571 C Frequency | | | | | | | |

Electrical Specification - maximum limiting values when measured in HCMOS test circuit

SURFACE MOUNT SPXOs

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 series.

Outline in mm - Tape



Outline in mm - Reel