



Customer Part: SPXO012682

Description

- Surface mount oscillator in a ceramic package with a hermetically sealed metal lid
- Model: IQXO-71
- Model Issue number: 10

Frequency Parameters

- Frequency: 20.0MHz
- Frequency Tolerance @ 25°C: INCLUSIVE
- Frequency Stability: ±100.00ppm
- Operating Temperature Range: -10.00 to 70.00°C
- Ageing: ±5ppm max typical in first year

Electrical Parameters

- Supply Voltage: 3.3V
- Supply Voltage Tolerance: ±0.3V
- Current Draw: 12mA max

Output Details

- Output Compatibility: HCMOS
- Output Load: 15pF max
- Rise and Fall time (20% - 80%): 6ns max
- Duty Cycle: 45/55%

Output Control

- Tri-state Operation:
 - Logic '1' (0.7Vs min) to pad 1 enables oscillator output
 - Logic '0' (0.3Vs max) 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

Environmental Parameters

- Shock: MIL-STD-202F, Method 213B (1000G, 0.5ms, 1/2 sine)
- Vibration: MIL-STD-202F, Method 204D, Test condition D, 20G, frequency range 10-2000Hz, 4 hrs in 3 mutually perpendicular planes (total 12 hrs)
- Storage Temperature Range: -55 to 125°C

Compliance

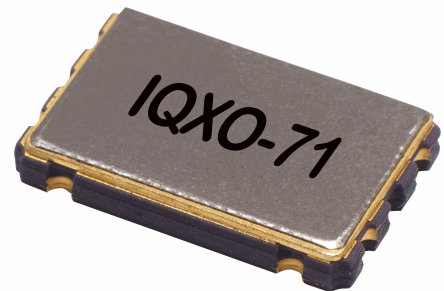
- RoHS Status: Compliant
- REACH Status: Compliant

Packaging

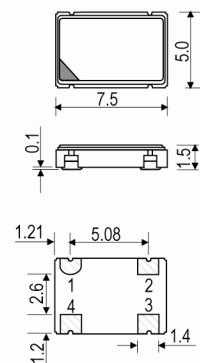
- Pack Type: Reel: Tape & reel in accordance with EIA-481-D
- Pack Size: 1,000

Alternative packing option available

This document is correct at the time of printing; please contact your local office for the latest version.

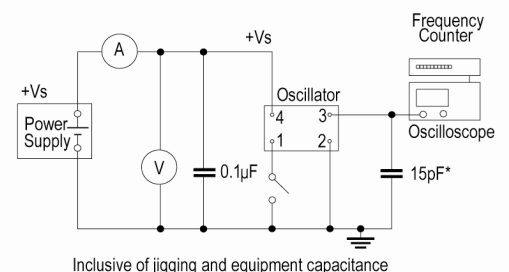


Outline (mm)



- Pad Connections
1. Enable/Disable
 2. GND
 3. Output
 4. +Vs

Test Circuit



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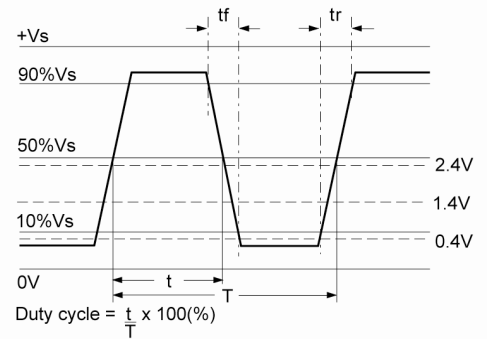
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Wave Form



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