



**Description**

- Surface mount oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXO-70
- Model Issue number 11

**Frequency Parameters**

- Frequency 16.0MHz
- 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 5.0V
- Supply Voltage Tolerance ±0.5V
- Current Draw 27mA max

**Output Details**

- Output Compatibility HCMOS
- Output Load 50pF max
- Rise and Fall time (20% - 80%) 7ns max
- Duty Cycle 45/55%

**Output Control**

- Tri-state Operation:  
Logic '1' (2.2V min) to pad 1 enables oscillator output  
Logic '0' (0.8V 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 10Hz-2000Hz, 4hrs in 3 mutually perpendicular planes (total 12hrs)
- Storage Temperature Range: -55 to 125°C

**Compliance**

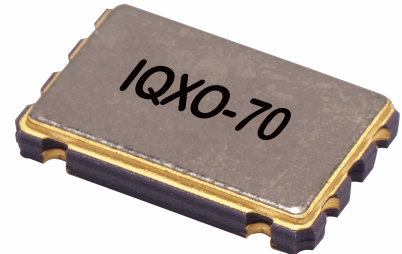
- RoHS Status Compliant
- REACH Status Compliant

**Packaging**

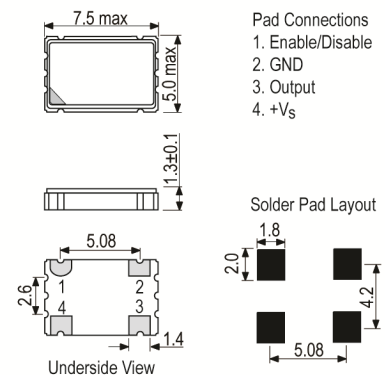
- Pack Type: Reel Tape & reel in accordance with EIA-481-D
- Pack Size 1,000

- Alternative packing option available

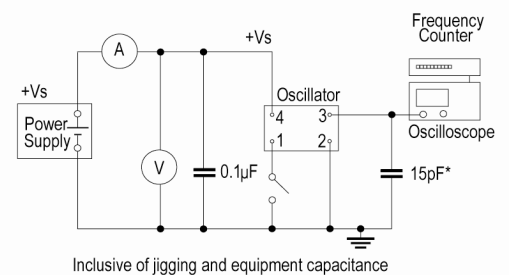
*This document is correct at the time of printing; please contact your local office for the latest version.*



**Outline (mm)**



**Test Circuit**



**Sales Office Contact Details:**

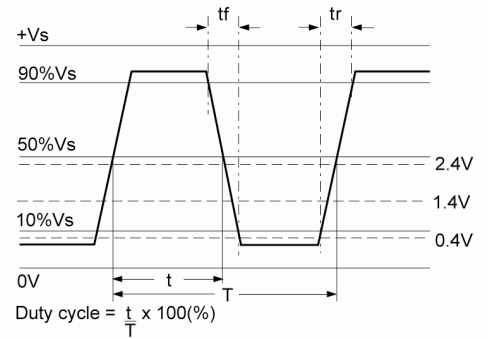
UK: +44 (0)1460 270200  
Germany: +49 (0)7264 9145-0

France: +33 (0)5 34 50 91 18  
USA: +1 (0)408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)



**Wave Form**



**Sales Office Contact Details:**

UK: +44 (0)1460 270200

Germany: +49 (0)7264 9145-0

France: +33 (0)5 34 50 91 18

USA: +1 (0)408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)

Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)