



Description

- Surface mount oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXO-71
- Model Issue number 11

Frequency Parameters

- Frequency 27.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$
- Operating Temperature Range -10.00 to 70.00°C
- Ageing $\pm 5\text{ppm}$ max in 1st year

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 0.3\text{V}$
- Current Draw 12.00mA

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 6.0ns max
- Duty Cycle $45/55\%$

Output Control

- Tri-state Operation:
Logic '1' ($0.7V_s$ min) to pad 1 enables oscillator output
Logic '0' ($0.3V_s$ 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 $10\text{-}2000\text{Hz}$ 2hrs in 3 mutually perpendicular planes (total 6hrs)
- Storage Temperature Range: -55 to 125°C

Compliance

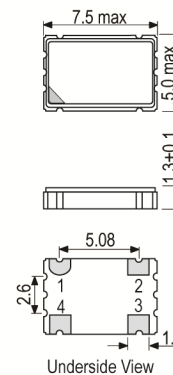
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 100
- Alternative packing option available

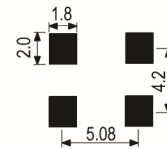


Outline (mm)

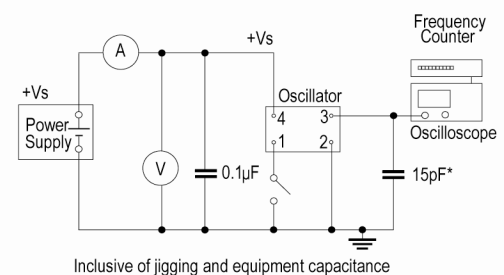


- Pad Connections
1. Enable/Disable
 2. GND
 3. Output
 4. $+V_s$

Solder Pad Layout



Test Circuit



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Wave Form

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