


Description

- Standard 2 x 1.6 crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed
- Model IQXO-542
- Model Issue number 2

Frequency Parameters

- Frequency 24.5760MHz
- Frequency Stability ± 50.00 ppm
- Operating Temperature Range -40.00 to 85.00 °C
- Ageing ± 5 ppm

Electrical Parameters

- Supply Voltage $1.8V \pm 10\%$
- Current Draw 5.000mA
- Standby Current: 10µA max (pad 1 at logic '0')

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle 45/55%

Output Control

- Standby Operation: Logic '1' ($\geq 70\%V_S$) to pad 1 enables oscillator output
Logic '0' ($\leq 30\%V_S$) 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

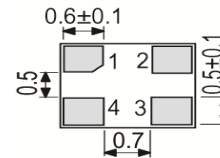
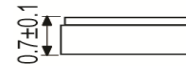
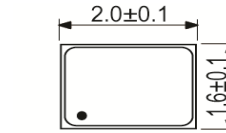
- Impact: Weight of 10g dropped to centre of part from a height of 6mm
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- Storage Temperature Range: -40 to 85 °C

Compliance

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

Packaging Details

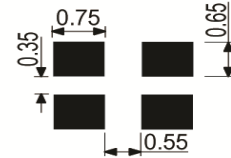
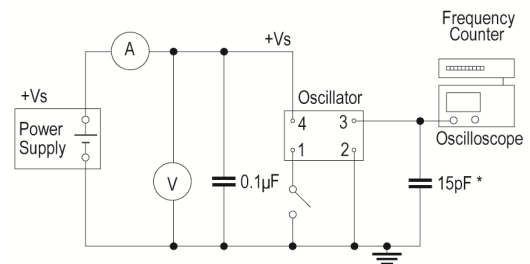
- Pack Style: Cutt In tape, cut from a reel
Pack Size: 100
- Alternative packing option available

Outline (mm)


Underside View

Pad Connections

- Standby Operation
- GND
- Output
- +Vs

Solder Pad Layout

Test Circuit


* Inclusive of jiggging and equipment capacitance

Sales Office Contact Details:

 UK: +44 (0)1460 270200
 Germany: 0800 1808 443

 France: 0800 901 383
 USA: +1.760.318.2824

 Email: info@iqdfrequencyproducts.com
 Web: www.iqdfrequencyproducts.com