



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	40.0MHz
Frequency Tolerance @ 25°C	INCLUSIVE
Frequency Stability	±50.00ppm
Operating Temperature Range	-40.00 to 85.00°C
Ageing	±5ppm

Frequency Stability

- Inclusive of tolerance, supply voltage and load variations over the operating temperature range

Electrical Parameters

Supply Voltage	1.8V
Supply Voltage Tolerance	±10%
Current Draw	6mA max
Standby Current: 10µA max (pad 1 at logic '0')	

Output Details

Output Compatibility	CMOS
Output Load	15pF max
Rise and Fall time (10% - 90%)	5.0ns max
Duty Cycle	45/55%

Output Control

- Standby Operation: Logic '1' (≥70%VS) to pad 1 enables oscillator output
Logic '0' (≤30%VS) 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

- 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
- Impact: Weight of 10g dropped to centre of part from a height of 6mm

Compliance

RoHS Status	Compliant
REACH Status	Compliant

Packaging

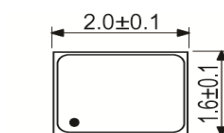
Pack Type: Bulk	Loose in bulk pack
Pack Size	100

- Alternative packing option available

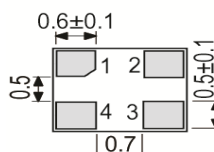
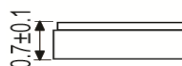
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Outline (mm)

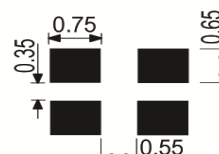


- Pad Connections
- Standby Operation
 - GND
 - Output
 - +Vs

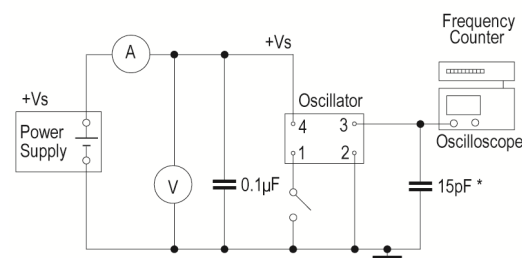


Underside View

Solder Pad Layout

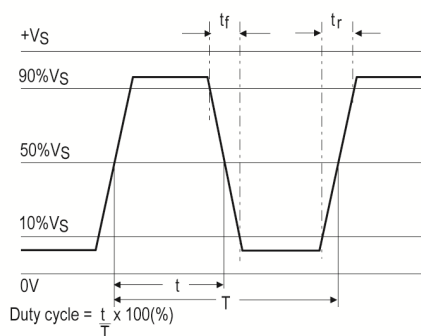


Test Circuit



* Inclusive of jigging and equipment capacitance

Wave Form



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