



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
 Frequency Stability
 Operating Temperature Range
 50.0MHz
 ±50.00ppm
 -40.00 to 85.00°C

Ageing ±5ppm

Electrical Parameters

■ Supply Voltage 1.8V ±10%
■ Current Draw 6.00mA
■ Standby Current: 10µA max (pad 1 at logic '0')

Output Details

Output Compatability
 Drive Capability
 Rise and Fall Time
 Duty Cycle
 CMOS
 15pF max
 5.0ns max
 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

- 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)
 REACh Status
 MSL Rating (JDEC-STD-033):
 Not Applicable

Packaging Details

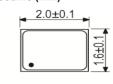
Pack Style: Cutt In tape, cut from a reel

Pack Size: 100

Alternative packing option available

A LEAN

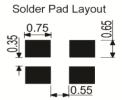
Outline (mm)



Pad Connections
1. Standby Operation
2. GND
3. Output

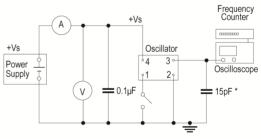
4. +Vs





0.6±0.1 1 2 + 1 4 3 0.7 Underside View

Test Circuit



* Inclusive of jigging and equipment capacitance

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