



Crystal Clock Oscillator Specification SQXO-2

Outline (mm)

ISSUE 1; January 2016

Description

- The SQXO-2 crystal oscillator consists of a TTL and CMOS-compatible hybrid circuit and a miniature quartz crystal packaged in a hermetically sealed 3-pin TO-39 package
- Please note that all data is only valid at 25°C unless otherwise stated.

Frequency Parameters

Frequency

Ageing

- **Frequency Tolerance**
 - ±100.00ppm to ±1,000.00ppm @ 25°C
 - **Tolerance Condition** ±10ppm max in 1st year @
 - 25°C

5.0V ±10%

10.0kHz to 2.0MHz

Frequency Stability Coefficient (k): -0.035ppm/°C²

Electrical Parameters

- Supply Voltage
- Absolute Maximum Supply Voltage: -0.5V to 7.0V

Operating Temperature Ranges

- -10 to 70°C
- -40 to 85°C .
- -55 to 125°C

Output Details

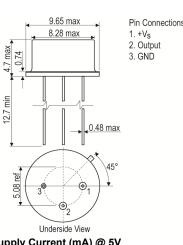
Output Compatability CMOS Drive Capability 15pF

Environmental Parameters

- Shock: Above 600kHz, 750G, 0.3ms, 1/2 sine Below 600kHz, 1000G, 0.3ms, 1/2 sine Vibration:
- 10G rms, 10-2000Hz, random
- Storage Temperature Range: -55 to 125°C

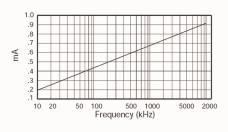
Manufacturing Details

- FEATURES: CMOS and TTL compatible Low power Low EMI emission Wide temperature range Full military testing available Hermetically sealed APPLICATIONS:
- Industrial, Computer & Communications -General purpose clock oscillator MWD (measurement while drilling) Military & Aerospace -Airborne hybrid computer Flight recorder
- Maximum Process Temperature: 260°C for 10sec

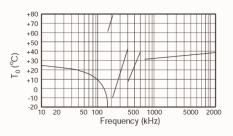








Typical Turning Point Temperature (To)



Note: Frequency (f) deviation from frequency (fo) @ turning point temperature (To): f-fo = k(T-To)² fo

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Ordering Information

Frequency*
Model*
Frequency Tolerance*
Operating Temperature Range*
Supply Voltage
(*minimum required)
Example
1.0MHz SQXO-2
CMOS ±100ppm –10 to 70C 5V

Compliance

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

Packaging Details

- Pack Style: Tray Supplied on a tray Pack Size: 1
- Pack Style: Bulk Loose in bulk pack
 Pack Size: 1

Electrical Specification - maximum limiting values 5.0V ±10%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
10.00kHz	2.0MHz	-10 to 70	-	-	200	40/60%
		-40 to 85	-	-	200	40/60%
		-55 to 125	-	-	200	40/60%

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