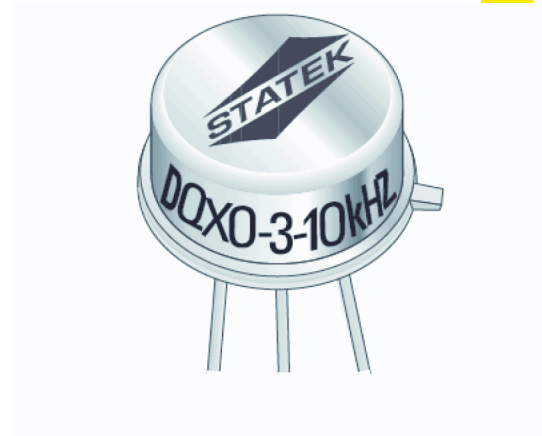


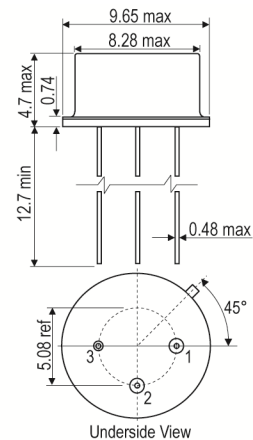
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Description

- This product is designed and manufactured by Statek Corporation in California, USA and distributed by IQD. The DQXO-3 oscillator has very high accuracy, stability and low current. The design consists of a CMOS compatible hybrid circuit, packaged in a hermetically sealed standard TO-39 metal package. Permanent, precision tuning of the oscillator allows for very tight calibration tolerance and eliminates the need for a trimming capacitor, a major source of long-term frequency drift. The specifications and characteristics of the DQXO-3 vary with frequency. The characteristics of the 400Hz model are presented in this data sheet.
- FEATURES:
 Very low power consumption
 Low ageing
 Full military testing available
 3.3V version available
 Multiple frequency output available (6-pin TO-5 package)
- APPLICATIONS:
 Industrial, Computer & Communications -
 General purpose clock oscillator
 Remote data timers
 Military & Aerospace -
 Process controllers
 Repeat cycle timers
 Tone generators
 Airborne hybrid computer
 Flight recorder
- Please note that all data is only valid at 25°C unless otherwise stated.



Outline (mm)



Pin Connections
 1. +V_S
 2. Output
 3. GND

Frequency Parameters

- Frequency 0.001kHz to 10.0kHz
- Frequency Tolerance ±100.00ppm to ±10,000.00ppm
- Tolerance Condition @ 25°C
- Ageing ±10ppm max in 1st year @ 25°C
- Frequency Stability:
 -40 to +85°C: ±150ppm typ, ±300ppm max
 -55 to +125°C: ±350ppm typ, ±600ppm max
 Note: Frequency Stability does not include Frequency Tolerance @ 25°C
- Load Variation (±10%): ±1ppm max
- Note: Other Frequencies and tighter Frequency Tolerances are available - please contact an IQD Sales Office

Electrical Parameters

- Supply Voltage 5.0V ±10%
- All parameters shown are based on a device frequency of 400Hz
- Supply Voltage Coefficient: ±3ppm/V typ, ±10ppm/V max
- Note: Faster rise and fall times are available - please contact an IQD Sales Office
- Absolute Maximum Supply Voltage: -0.3V to 7.0V

Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1 760 318 2824

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

Operating Temperature Ranges

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

Output Details

- Output Compatibility CMOS
- Drive Capability 10pF//10MΩ

Output Levels

- Output High: 4.8V min
- Output Low: 0.4V max

Environmental Parameters

- Shock: 1000G, 1.0ms, 1/2 sine: Δfr ±3ppm max
- Vibration: 10G rms, 10-2000Hz: Δfr ±3ppm max
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

- Maximum Process Temperature: 260°C for 10sec max

Ordering Information

- Frequency*
Model*
Supply Voltage
Output Compatibility
Frequency Tolerance (@ 25°C)*
Operating Temperature Range*
(*minimum required)
- Example
1kHz DQXO-3 5.0V
CMOS ±100ppm -10 to 70C

Compliance

- RoHS Status (2015/863/EU) Optional
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Tray Supplied on a tray
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	%
0.001kHz	10.0kHz	-10 to 70	-	0.25	150	40/60%
		-40 to 85	-	0.25	150	40/60%
		-55 to 125	-	0.25	150	40/60%

This document was correct at the time of printing; please contact your local sales office for the latest version.
[Click to view latest version on our website.](#)

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