



ISSUE 8; August 2012 - RoHS 2011/65/EU



Description

- Surface mount temperature compensated voltage controlled crystal oscillator (TCVCXO) providing a high degree of frequency stability over a wide temperature range in a hermetically sealed ceramic package and is particularly suited to applications where space is at a premium.

Frequency Range

- Frequency 10.000 to 30.000MHz

Supply Voltage

- Voltage 3.0V ±0.15V
- Frequency Tolerance ±0.5ppm

Ageing

- Ageing ±1ppm typ in 1st year @ 25°C

Output Compatibility & Load

- Output Compatibility Clipped Sine
- Drive Capability 10kΩ // 10pF ±10%

Frequency Stabilities

- Frequency Stability ±1.50ppm

Operating Temperature Ranges

- 0 to 50°C
- -10 to 60°C
- -20 to 70°C
- -30 to 85°C
- -40 to 85°C

Electrical Parameters

- Supply Voltage Variation: ±0.2ppm (5% change)
- Load Variation: ±0.2ppm max (10% change)

Frequency Adjustment

- Pulling ±3ppm min to ±7ppm max
- Control Voltage 1.5V ±1.0V
- Input Impedance (Pad1): 1.0MΩ min

Output Details

- Output: 0.8Vpk-pk min

Noise Parameter

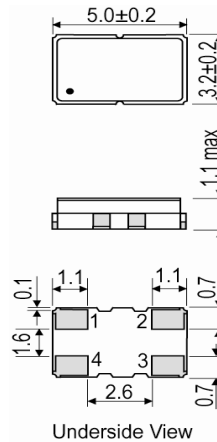
- Phase Noise (typical @ 13MHz)
 - 80dBc/Hz @ 10Hz
 - 105dBc/Hz @ 100Hz
 - 130dBc/Hz @ 1kHz
 - 140dBc/Hz @ 10kHz

Environmental Parameters

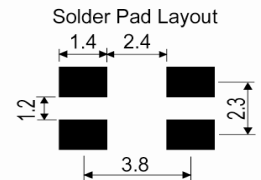
- Shock: MIL-STD-883D, Method 2002.3, Test Condition B: 1500G, 0.5ms, 1/2 sine wave, 3 shocks in each of 3 mutually perpendicular planes
- Vibration: MIL-STD-883D, Method 2005.2, Test Condition B: 20G (20Hz-2000Hz), 1.5mm amplitude, in 3 mutually perpendicular planes, 4hrs in each plane



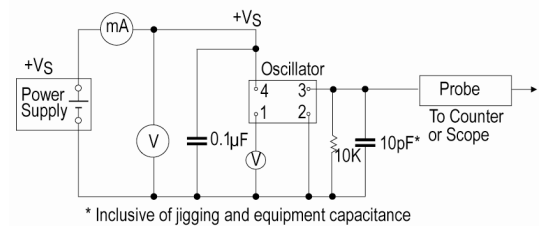
Outline (mm)



- Pad Connections**
1. Voltage Control
 2. GND
 3. Output
 4. +Vs



Test Circuit



Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: +49 (0)7264 9145-0

France: +33 (0)5 34 50 91 18
USA: +1 (0)408.273.4530

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



- Storage Temperature Range: -55 to 125°C

Sales Office Contact Details:

UK: +44 (0)1460 270200

Germany: +49 (0)7264 9145-0

France: +33 (0)5 34 50 91 18

USA: +1 (0)408.273.4530

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com



Ordering Information (*minimum required)

- Frequency*
- Model*
- Output
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- Example
- 13.0MHz CFPT-141
- Clipped Sine ±2.5ppm -30 to 85C 3V

Packing Details

- Pack Style: **Bulk** Loose in bulk pack
- Pack Size 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
- Pack Size 1,000
- Alternative packing options available

Electrical Specification - maximum limiting values 3.0V ±0.15V

Frequency Range	Temp Range	Stability	Output Waveform	Supply Current
10.00 to 30.000MHz	0 to 50°C	±1.50ppm	Clipped Sine	2.0mA
	-10 to 60°C	±1.50ppm		
	-20 to 70°C	±1.50ppm		
	-30 to 85°C	±1.50ppm		
	-40 to 85°C	±1.50ppm		

This document was correct at the time of printing; please contact your local sales office for the latest version

Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: +49 (0)7264 9145-0

France: +33 (0)5 34 50 91 18
USA: +1 (0)408.273.4530

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [iqd manufacturer](#):

Other Similar products are found below :

[LFXTAL071761CUTT](#) [LPMC XO063767BULK](#) [LPMC XO063773BULK](#) [LFOC XO063802BULK](#) [LFOC XO063809BULK](#)
[LFTC XO063709BULK](#) [LFTC XO063710BULK](#) [LFTC XO063779BULK](#) [LFTC XO070028Cutt](#) [LFTV XO063701BULK](#)
[LFTV XO063702BULK](#) [LFTV XO063703BULK](#) [LFTV XO063707BULK](#) [LFTV XO063791BULK](#) [LF XTAL003156](#) [LPMC XO063766BULK](#)
[LPMC XO063771BULK](#) [LFOC XO063816BULK](#) [LFTC XO063713BULK](#) [LFTC XO063714BULK](#) [LFTC XO063716BULK](#)
[LFTV XO063704BULK](#) [LFTV XO063705BULK](#) [LFTV XO063706BULK](#) [LFTV XO063789BULK](#) [LFTV XO063790BULK](#) [LF XTAL003113](#)
[LFOC XO063809](#) [LFSP XO009581](#) [LFTC XO063784](#) [LFTV XO063786](#) [LFSP XO009686Bulk](#) [LFRB XO059244Bulk](#) [LFTV XO075802Cutt](#)
[LFOC XO067293Bulk](#) [LFTC XO075792Cutt](#) [LPMC XO064079BULK](#) [LFSP XO071189](#) [LFOC XO067293](#) [LFXTAL012312BULK](#)
[LFTC XO063780BULK](#) [LFSP XO056269CUTT](#) [LFOC XO063803BULK](#) [LFSP XO009592CUTT](#) [LFOC XO065520Bulk](#) [LFMISC070550Bulk](#)
[LFSP XO025494Cutt](#) [LPMC XO064080BULK](#) [LFOC XO063804BULK](#) [LFSP XO019884BULK](#)