

# **VCTCXO Specification IQXT-192**

#### ISSUE 1; April 2016

#### Description

A temperature compensated crystal oscillator with voltage control in a hermetically sealed surface mount package

#### **Frequency Parameters**

8.192MHz to 52.0MHz Frequency 

Frequency Tolerance ±2.50ppm **Tolerance Condition** @ 25°C ±2°C

±1.00ppm to ±2.50ppm Frequency Stability ±1ppm max per year @ 25°C Ageing

Supply Voltage Variation (±5% change): ±0.2ppm

Load Variation (±5% change): ±0.2ppm

#### **Electrical Parameters**

Supply Voltage Options (±5%): 1.8V, 2.5V, 2.8V, 3.0V & 3.3V

#### **Frequency Adjustment**

Pulling ±5ppm min Control Voltage 50%Vs ±50%Vs

#### **Operating Temperature Ranges**

-30 to 85°C

#### **Output Details**

**Output Compatability** Clipped Sine 10kΩ//10pF **Drive Capability** 

Output Voltage Level: 0.8V pk-pk min

#### **Noise Parameters**

Phase Noise (typ @ 20MHz):

-90dBc/Hz @ 10Hz

-115dBc/Hz @ 100Hz

-128dBc/Hz @ 1kHz

-145dBc/Hz @ 10kHz

-149dBc/Hz @ 100kHz

-150dBc/Hz @ 1MHz

#### **Environmental Parameters**

Storage Temperature Range: -40 to 85°C

Drop: JIS-C-6701: 75cm drop (3 times) onto hard wooden

Vibration: MIL-STD-883, Method 2007.2: 20G (20Hz-2000Hz), 1.5mm amplitude, in 3 mutually perpendicular planes, 4mins for each cycle

# **Ordering Information**

Frequency\*

Model\*

Output

Frequency Stability (over operating temperature range)\*

Operating Temperature Range\*

Supply Voltage\*

Frequency Adjustment (minimum required\*)

Example

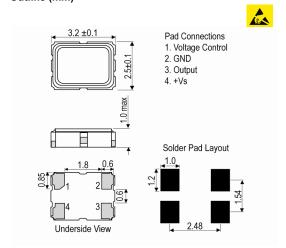
16.0MHz IQXT-192-1

Clipped Sine ±2.5ppm -30 to 85C 3.3V ±5ppm min

## **Sales Office Contact Details:**

UK: +44 (0)1460 270200 Germany: 0800 1808 443

## Outline (mm)





# VCTCXO Specification *IQXT-192*

# Compliance

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

# **Packaging Details**

■ Pack Style: Reel Tape & reel in accordance with EIA-481-D

Pack Size: 3,000

#### **Electrical Specification - maximum limiting values**

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
8.192MHz	52.0MHz	-30 to 85	±1.0	2	-	-

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