



ISSUE 5; August 2012 - RoHS 2011/65/EU



Description

■ Surface mount temperature compensated voltage controlled oscillator (TCVCXO) providing a high degree of frequency stability over a wide temperature range in a hermetically sealed ceramic package

Frequency Range

■ Frequency 10.00 to 40.00MHz

Supply Voltage

■ Voltage 3.3V ±5%

Ageing

■ Ageing ±1ppm typical in 1st year @ 25°C

Output Compatibility & Load

■ Output Compatibility HCMOS

■ Drive Capability 15pF nom

■ Pulling ±5ppm min

■ Voltage Control 1.65V ±1.0V

Frequency Stabilities

■ Frequency Stability ±0.5ppm

Operating Temperature Ranges

■ -40 to 85°C

Electrical Parameters

■ Current Draw (Typical): 3mA @ 20MHz

■ Supply Voltage Variation:
 <30MHz ±0.3ppm
 30MHz to 40MHz ±0.4ppm

■ Load Variation: ±0.2ppm (@15pF ±10%)
 After Reflow: ±1.0ppm

Environmental Parameters

■ Shock: IEC 60068-2-27, Test Ea: 980m/s² acceleration for 6ms, 3 shocks in each of 3 mutually perpendicular planes

■ Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz-60Hz 1.5mm displacement, 60-2000Hz at 98.1m/s², 30mins in 3 mutually perpendicular planes at 1 oct/min

■ Solderability: MIL-STD-202, Method 208, Category 3

■ Storage Temperature Range: -55 to 125°C

Manufacturing Details

■ Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C, 60sec max above 220°C

■ Washing: Able to withstand aqueous washing

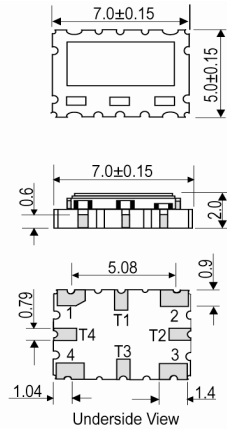
Ordering Information (*minimum required)

■ Frequency*
 Model*
 Output
 Frequency Stability (over operating temperature range)*
 Operating Temperature Range*
 Supply Voltage

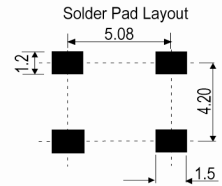
■ Example
 13.0MHz CFPT-126
 HCMOS ±0.5ppm -40 to 85C 3.3V



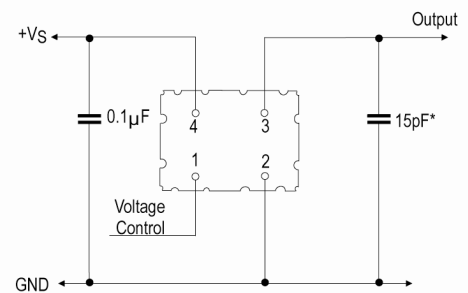
Outline (mm)



Pad Connections
 1. Voltage Control
 2. GND
 3. Output
 4. +Vs
 T1, T2, T3, T4,
 Do Not Connect



Test Circuit



* Inclusive of probe and jig capacitance

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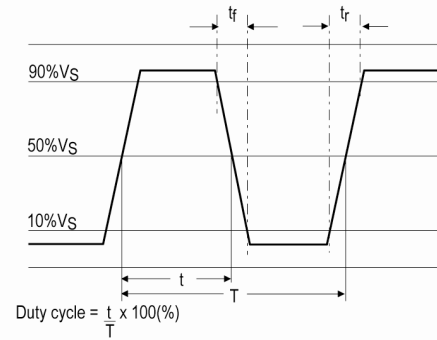
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Packing Details

- 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

Output Waveform



Electrical Specification - maximum limiting values 3.3V ±5%

Developed Frequencies	Temp Range	Stability	Pullability	Rise & Fall (10 to 90%)	Duty Cycle %
10.00MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%
12.80MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%
13.00MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%
16.38MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%
19.44MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%
20.00MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%
24.00MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%
26.00MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%
32.77MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%
40.00MHz	-40 to 85°C	±0.5ppm	±5ppm min	8ns	45/55%

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