

CFPT-141

ISSUE 5; 19 OCTOBER 2004

Delivery Options

- Please contact our sales office for current leadtimes

Description

- CFPT-141 is a surface mount temperature compensated voltage controlled crystal oscillator (TCVCO) providing a high degree of frequency stability over a wide temperature range. They are particularly suited to applications where space is at a premium

Package Outline

- 5.0 × 3.2 × 1.2mm SMD

Stock Frequencies

- 12.80, 13.0, 19.2, 20.0, 26.0MHz

Output Waveform

- Clipped Sine 0.8V pk-pk min
- Output Load 10kΩ/10pF ±10%

Voltage Control

- 1.5V ±1.0V applied to pad 1
- VC Input Impedance >1.0MΩ

Frequency Adjustment

- ±3ppm to ±7ppm

Frequency Stability

- Temperature: see table
- Supply Voltage Variation: ±0.2ppm (5% change)
- Load Variation: ±0.2ppm max (10% change)
- Ageing ±1ppm typical first year @ 25°C

Storage Temperature Range

- -55 to 125°C

Soldering Conditions

- For typical soldering conditions, please see the relevant pages in Application Notes

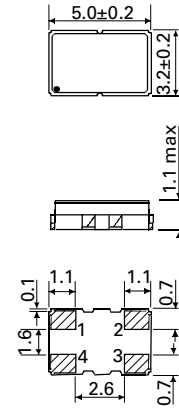
Marking

- Model number
- Frequency

Minimum Order Information Required

- Frequency + Model Number + Frequency Stability + Operating Temperature

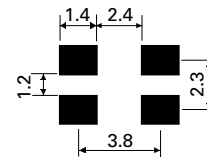
Outline in mm



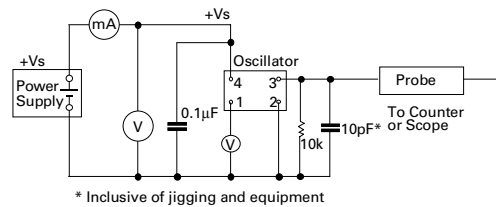
Pad Connections

1. Voltage Control
2. GND
3. Output
4. +Vs

Solder pad layout



Test Circuit



Electrical Specifications - maximum limiting values when measured in test circuit

Frequency Range	Supply Voltage	Supply Current	Voltage Control Change	Output Waveform	Output	Model Number
10.0 to 30.0MHz	3.0V \pm 0.15V	2.0mA	\pm 3ppm min. / \pm 7ppm max.	Clipped Sine	0.8 V pk-pk min	CFPT-141

Frequency Stabilities Available Over Temperature Ranges

Operating Temperature Ranges	Frequency Stabilities Vs Operating Temperature Range			
	\pm 1.5ppm	\pm 2.0ppm	\pm 2.5ppm	\pm 5ppm
0 to 50°C	Code CP	Code GP	Code HP	Code KP
-10 to 60°C	Code CR	Code GR	Code HR	Code KR
-20 to 70°C	-	Code GS	Code HS	Code KS
-30 to 85°C	-	-	Code HW*	Code KW
-40 to 85°C	-	-	Code HX	Code KX

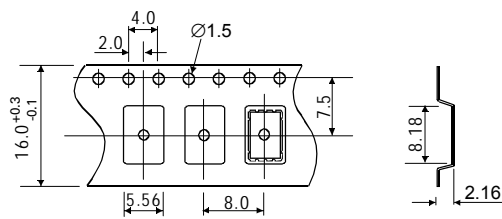
*Please note Code HW is the standard frequency stability vs operating temperature range

Ordering Example	13.0MHz	CFPT-141	HW
Frequency _____	_____	_____	_____
Model Number _____	_____	_____	_____
Frequency Stability Vs Operating Code _____	_____	_____	_____

SURFACE MOUNT
TCXOs

Note. Other frequencies / specifications may be available, please contact our sales office.

Outline in mm - Tape



Outline in mm - Reel

