

CFPT-123

ISSUE 4 ; 8 JUNE 2005

Delivery Options

- Please contact our sales office for current leadtimes

Description

- CFPT-123 is a surface mount temperature compensated voltage controlled crystal oscillator (TCVCXO) providing a high degree of frequency stability over a wide temperature range

Package Outline

- $7.0 \times 5.0 \times 2.0$ mm SMD

Stock Frequencies

- 10.0, 12.80, 13.0, 14.40, 15.360, 19.20, 19.44, 19.68, 20.0, 26.0MHz

Output Waveform

- Clipped Sine 0.8V pk-pk minimum
- Output load: $10k\Omega // 10pF \pm 10\%$

Frequency Adjustment

- ± 5 ppm min, V control $1.5V \pm 1.0V$ applied to pad 1
- VC Input Impedance $> 1.0M\Omega$

Frequency Stability

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

Storage Temperature Range

- -55 to 125°

Solder Conditions

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

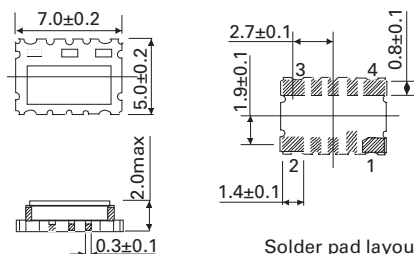
Marking

- Model Number
- Frequency

Minimum Order Information Required

- Frequency + Model Number + Frequency Stability + Operating Temperature Range

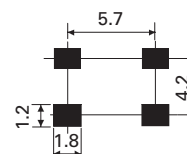
Outline in mm



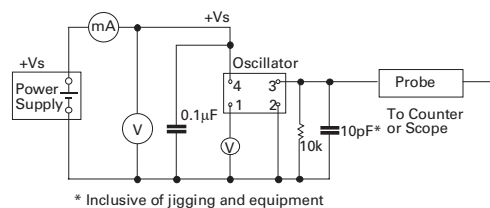
Pad Connections

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 26.0MHz	3.0V±0.15V	2.5mA	±5.0ppm min./1.5V±1.0V	Clipped Sine	0.8V pk-pk min	CFPT-123

Frequency Stabilities Available Over Operating Temperature Ranges

Operating Temperature Ranges	Frequency Stabilities Vs Operating Temperature Range			
	±1.5ppm	±2.0ppm	±2.5ppm	±5.0ppm
0 to 50°C	CP	GP	HP	KP
-10 to 60°C	CR	GR	HR	KR
-20 to 70°C	—	GS	HS	KS
-30 to 80°C	—	GV	HV*	KV
-30 to 85°C	—	—	HW	KW
-40 to 85°C	—	—	HX	KX

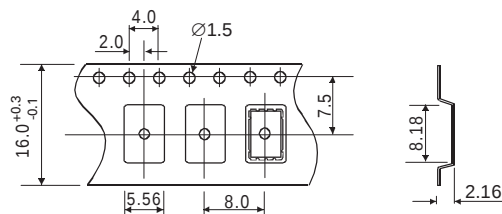
*Please note Code HV is the standard frequency stability vs operating temperature range

Ordering Example	12.8MHz	CFPT-123	HV
Frequency _____	_____	_____	_____
Model number _____	_____	_____	_____
Frequency Stability Vs Operating Temperature Code _____	_____	_____	_____

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

SURFACE MOUNT
TCXOs

Outline in mm - Tape



Outline in mm - Reel

