

CFPT-123



ISSUE 2 ; 28 AUGUST 2003

Delivery Options

- Please contact our sales office for current leadtimes

Description

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

Package Outline

- 7.0 × 5.0 × 2.0mm SMD (surface mount device)

Output Waveform

- Clipped Sine 0.8V peak to peak minimum
- Load: 10kΩ // 10pF

Ageing

- ±1ppm typical first year @ 25°C

Developed Frequencies (MHz)

- 10.0, 12.288, 12.800, 13.00, 14.400, 15.360, 16.367667, 16.368, 16.80, 19.20, 19.44, 19.68, 19.80, 20.0, 22.0, 24.5535, 26.00
- Please refer to our website for latest developed frequencies

Frequency Adjustment

- ±5ppm min, V control 15V±10V applied to pin 1

Frequency Stability

- Temperature (see table)
- Supply Voltage Variation: ±0.3ppm
- Load Variation: ±0.2ppm
- After Reflow: ±1.0ppm

Storage Temperature Range

- -55 to 85°C

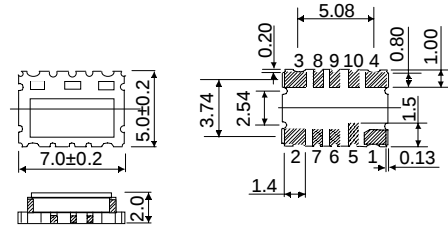
Marking

- Model Number
- Frequency

Minimum Order Information Required

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

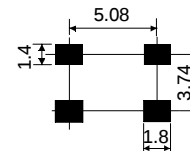
Outline in mm - (scale 2:1)



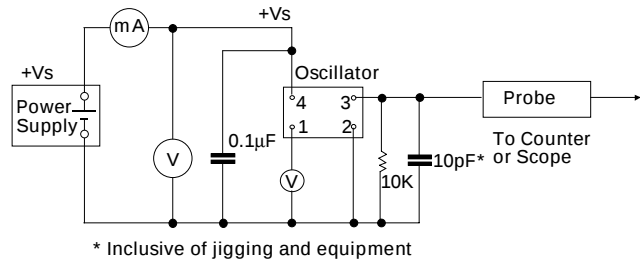
Pin Connections

- 1.V con
- 2.GND
- 3.Output
- 4.+Vs

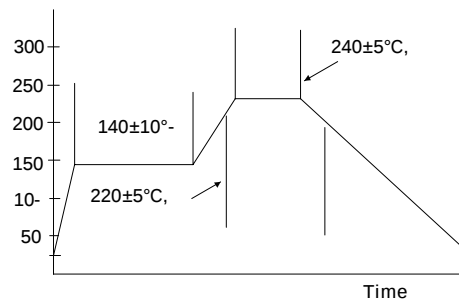
Solder Pad Layout



Test Circuit



Reflow Solder Profile



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±0.3V	2mA	±5.0ppm min. /1.5V±1.0V	Clipped Sine	0.8V pk-pk min	CFPT-123

Frequency Stabilities Available Over Operating Temperature Ranges

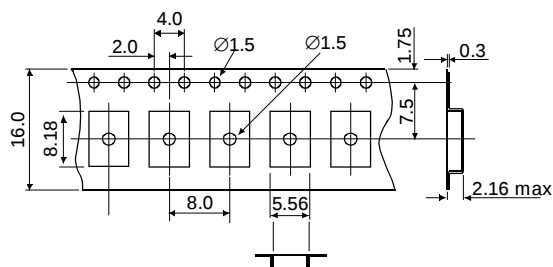
Operating Temperature Ranges	Frequency Stabilities Vs Operating Temperature Range			
	±1.5ppm	±2.0ppm	±2.5ppm	±5.0ppm
0 to 50°C	CP	GP	HP	KP
-10 to 60°C	CR	GR	HR	KR
-20 to 70°C	—	GS	HS	KS
-30 to 80°C	—	GV	HV*	KV
-30 to 85°C	—	—	HW	KW
-40 to 85°C	—	—	HX	KX

*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 _____			

Outline in mm - Tape

Outline in mm - Reel (scale 1:8)



SURFACE MOUNT
TCXOs