

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 oscillatorTCVCXO) 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 >1.0M Ω

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

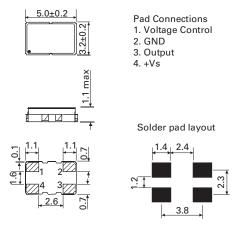
Marking

- Model number
- Frequency

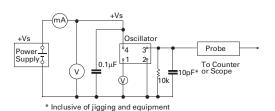
Minimum Order Information Required

 Frequency + Model Number + Frequency Stability + Operating Temperature

Outline in mm



Test Circuit



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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 ±0.15V	2.0mA	±3ppm min. / ±7ppm max.	Clipped Sine	0.8 V pk-pk min	CFPT-141

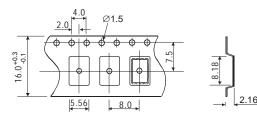
Frequency Stabilities Available Over Temperature Ranges

Operating Temperature	Frequency Stabilities Vs Operating Temperature Range						
Ranges	±1.5ppm	±2.0ppm	±2.5ppm	±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 t	he standard frequency st	tability vs operating temp	perature range				
Ordering Example		13.0MHz	CFPT-141 HW				
Frequency ————							
Model Number ———							

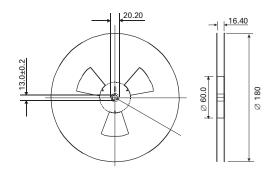
Note. Other frequencies / specifications may be available, please contact our sales office.

Outline in mm - Tape

Frequency Stability Vs Operating Code



Outline in mm - Reel



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