



### Description

- Surface mount temperature compensated voltage controlled crystal oscillator (TCVCXO) providing a high degree of frequency stability over a wide temperature range in a hermetically sealed ceramic package and is particularly suited to applications where space is at a premium.

Model	CFPT-141
Model Issue number	8

### Frequency Parameters

Frequency	20.0MHz
Frequency Tolerance @ 25°C	±0.50ppm
Frequency Stability	±2.50ppm
Operating Temperature Range	-30.00 to 85.00°C
Ageing	±1ppm typ in 1st year @ 25°C

### Electrical Parameters

Supply Voltage	3.0V
Supply Voltage Tolerance	±0.15V
Current Draw	2.00mA max
Supply Voltage Variation: ±0.2ppm (5% change)	
Load Variation: ±0.2ppm max (10% change)	

### Frequency Adjustment

Pulling	±3ppm min to ±7ppm max
Control Voltage Details	1.5V ±1.0V
Input Impedance (Pad1): 1.0MΩ min	

### Output Details

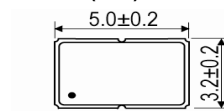
Output Compatability	Clipped Sine
Output Load	10kΩ // 10pF ±10%
Output: 0.8Vpk-pk min	

### Noise Parameters

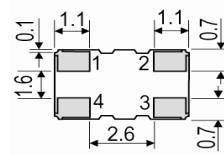
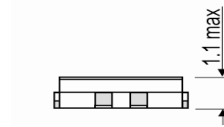
Phase Noise (typical @ 13MHz)	
-80dBc/Hz @ 10Hz	
-105dBc/Hz @ 100Hz	
-130dBc/Hz @ 1kHz	
-140dBc/Hz @ 10kHz	



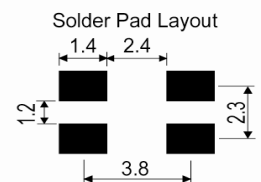
### Outline (mm)



- Pad Connections
- Voltage Control
  - GND
  - Output
  - +Vs

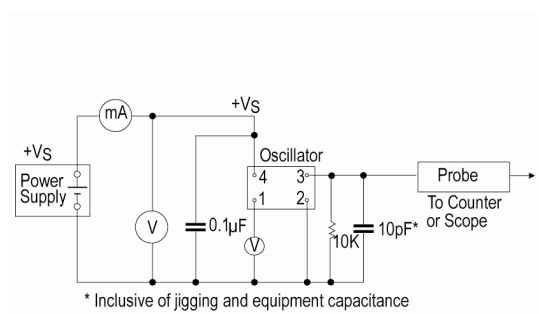


Underside View



Solder Pad Layout

### Test Circuit



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