



CFPT-125 SMD TCVCXO

ISSUE 10; 1 NOVEMBER 2010 - RoHS 2002/95/EC

Description

- Surface mount temperature compensated voltage controlled oscillator (TCVCXO) providing a high degree of frequency stability over a wide temperature range in a hermetically sealed ceramic package

Standard Frequencies

- 10, 12.8, 13, 14.4, 16.32, 16.384, 19.44, 20, 26, 32.768 40MHz (other frequencies may be available, please contact our sales offices)

Output Compatibility & Load

- HCMOS
- 15pF nom

Supply Voltage

- 3.3V±5%

Supply Current

- 3mA @ 20MHz typical

Frequency Stability

- ±0.9ppm

Supply Voltage Variation

- <30MHz ±0.3ppm
- 30MHz to <40MHz ±0.4ppm
- 40MHz ±0.5ppm

Load Variation

- ±0.2ppm (@15pF ±10%)

After Reflow

- ±1.0ppm

Ageing

- ±1ppm typ in 1st year @ 25°C

Operating Temperature Range

- 20 to 70°C

Control Voltage

- 1.65V±1V

Frequency Adjustment

- ±5ppm min

Duty Cycle

- 45/55%

Rise & Fall Time

- 8ns max

Storage Temperature Range

- 55 to 125°C

Environmental

- Shock: IEC 60068-2-27, Test Ea: 980m/s² acceleration for 6ms, 3 shocks in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz-60Hz 1.5mm displacement, 60-2000Hz at 98.1m/s², 30mins in 3 mutually perpendicular planes at 1 oct/min
- Solderability: MIL-STD-202, Method 208, Category 3

Manufacturing Information

- Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C for 10sec max
- Washing: Able to withstand aqueous washing

Packaging

- Loose in bulk pack, 100pcs per pack
- Tape and reel in accordance with EIA-481-D, 1kpcs per reel (please see pages 372 & 373)

Ordering Information (*minimum required)

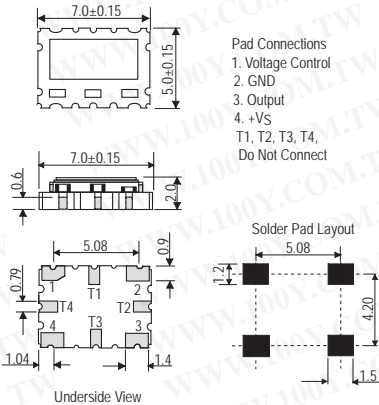
- Frequency*
- Model*
- Output
- Frequency Stability (over operating temperature range)
- Operating Temperature Range
- Supply Voltage
- Frequency Adjustment

Example

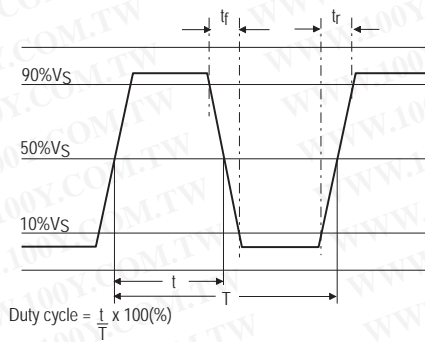
- 10.0MHz CFPT-125
HCMOS ±0.9ppm -20 to 70C 3.3V ±5ppm min



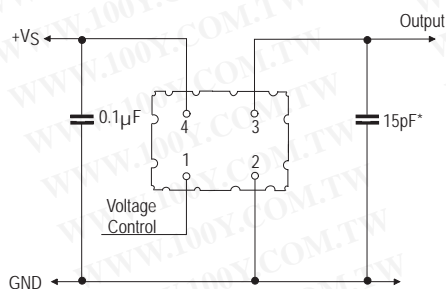
Outline (mm)



Output Waveform



Test Circuit



* Inclusive of probe and jig capacitance

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

