CFPT-126 SMD TCVCXO

ISSUE 5; 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 hermeticaly sealed ceramic package

Standard Frequencies

- 10, 12.8, 13, 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

- ±0.5ppm

Supply Voltage Variation

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

Load Variation

- ±0.2ppm (@15pF ±10%)

After Reflow

- ±1.0ppm

Ageing

- ±1ppm typ in 1st year @ 25°C

Operating Temperature Range

- –40 to 85°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/s^2 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/s^2, 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, 60sec max above 220°C
- 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)

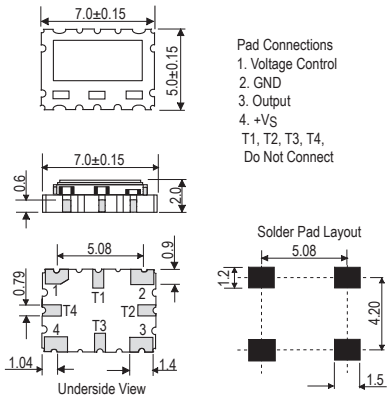
Ordering Information (*minimum required)

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

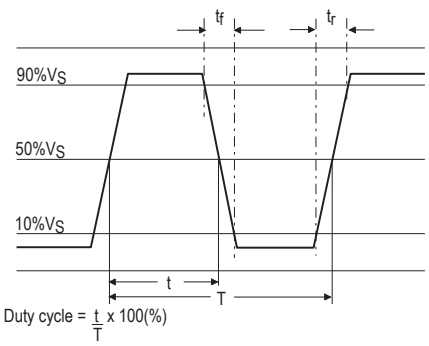
Example

- 13.0MHz CFPT-126
  HCMOS ±0.5ppm –40 to 85C 3.3V

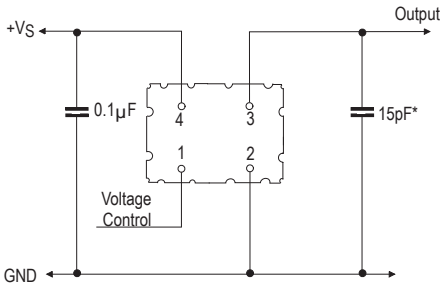
Outline (mm)



Output Waveform



Test Circuit



* Inclusive of probe and jig capacitance