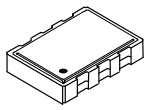
Pletronics, Inc.
19013 36th Ave. W, Suite H • Lynnwood, WA 98036 USA
Manufacturer of High Quality Frequency Control Products

PV7 PECL VCXO Series



- Differential PECL Output with Enable/Disable
- 6 Pad Leadless Surface Mount PECL Voltage Controlled Xtal Oscillator

70.00 MHz – 200.00 MHz
Consult factory for higher frequencies

Standard Specifications

Overall Frequency Stability	± 50 PPM over Operating Temperature Range
Operating Temperature Range	0 to +80°C is standard, but can be extended to - 40 to +85°C
Storage Temperature Range	- 55 to +125°C
Supply Voltage (Vcc)	3.3 volts ± 5% available. See Test Cirucit 5.
Supply Current (Icc)	100 mA maximum
Output High Level	2.275 V minimum referenced to Ground, Vcc = 3.300V, 0.975 V minimum referenced to termination voltage, - 1.025 V minimum referenced to Vcc
Output Low Level	1.680 V maximum referenced to Ground, Vcc = 3.300V, 0.380 V maximum referenced to termination voltage, - 1.620 V maximum referenced to Vcc
Output Symmetry	40/60% referenced to 50% of amplitude
Output Rise & Fall (Tr & Tf)	1.0 nS maximum when Vth is 10% and 90% of waveform
Jitter	5 pS RMS maximum measured from 12 kHz to 20 MHz from output frequency
E/D Internal Pullup	50 kohm minimum to Vcc
V disable	0.3 Vcc maximum referenced to Ground
V enable	0.7 Vcc minumum referenced to Ground

Output Enable / Disable (E/D)

High Level Input Current	-20 uA maximum at Enable / Disable Pin = 0.7 Vcc
Low Level Input Current	-200 uA maximum at Enable / Disable Pin = 0 V
Output Enable Time	200 nS maximum at output enable or 1 mS maximum at output enabled and stable
Output Disable Time	200 nS maximum at output disable

Vcc Supply Current disabled < 1 mA. Both outputs are high impedance when disabled.

Linearity	± 10% typical
Slope	Positive and montonic
Control Voltage Range (CVR)	0.0 to 3.3 V
Pullability	Pull range is defined as absolute pull range. This is the pull range about the specified oscillator frequency, independent of supply, temperature range and load.

Part Numbering Guide

Portions of the part number that appear after the frequency may not be marked on part (C of C provided)

Packaging
Tube or
24mm tape
16mm pitch

PV7 5 V B V - 100.0M - XXX (Internal Code or blank)

- Model: PV7
- Frequency Stability: 5 = ± 50 PPM
- Supply Voltage: V = 3.3 volts ±5%; W = 2.5 volts ±5%
- Operating Temperature Range: B: 0 to +70°C; F: - 40 to +85°C
- Frequency Deviation (Pullability) Absolute Pull Range: V: ± 50 PPM
- Frequency in MHz

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Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned.
Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

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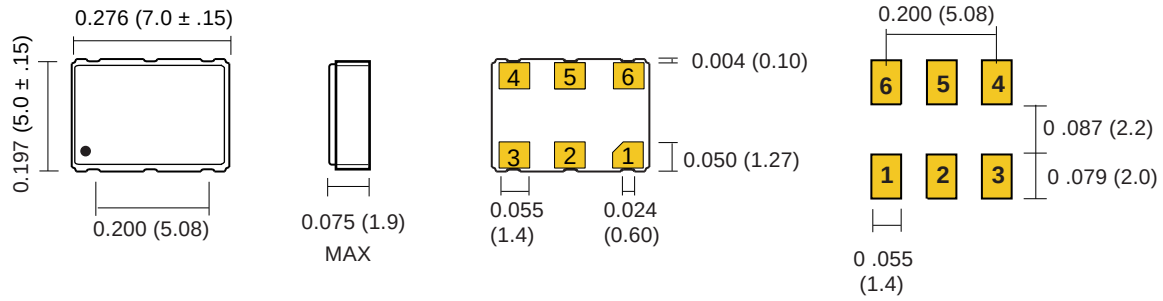
Mechanical: inches (mm) not to scale Solder Pads

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.



PIN	SIGNAL
1	Vcon
2	E/D
3	Vss
4	OUT
5	C OUT
6	Vcc

Lead Free

See page 6 for Layout Guidelines

Mar 2004