PVB, PVM PECL VCXO Series

- Differential PECL Output with Enable/Disable
- 6 Pad Leadless Surface Mount or 4 Lead Thru-Hole PECL Voltage Controlled Xtal Oscillator

1.00 MHz - 650.00 MHz Consult factory for higher frequencies

Standard Specifications

± 50 PPM, ± 25 PPM, ± 20 PPM over Operating Temperature Range **Overall Frequency Stability Operating Temperature Range** 0 to +70°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 \pm 5% standard, but 5.0 volts or 2.5 volts also available. See Test Cirucit 5.

Supply Current (Icc) < 250 MHz = 90 mA maximum, 250 MHz and above = 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 45/55% referenced to 50% of amplitude

Output Rise & Fall (Tr & Tf) 1.0 nS maximum when Vth is 10% and 90% of waveform

Jitter 6 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

Linerarity ± 10% typical

Slope Positive and montonic

Control Voltage Range (CVR) For 5.0 Vcc, CVR = 0.5 to 4.5 V, For 3.3 Vcc, CVR = 0.0 to 3.3 V, For 2.5 Vcc, CVR = 0.0 to 2.5 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. Typical values are \pm 25, \pm 50 and \pm 100 PPM.

PVB Output Enable/Disable (E/D)

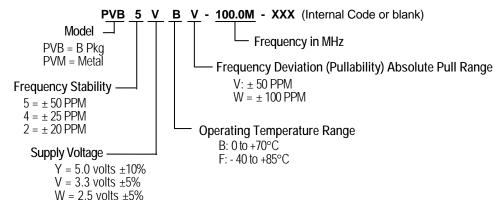
Output Enable Time 100 nS maximum **Output Disable Time** 100 nS maximum

When Disabled Q Output = Logic Low, QN Output = Logic High. Both Outputs are active

Part Numbering Guide

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

Packaging PVM = Tube PVB = Tube or24mm tape 16mm pitch



Mar 2004

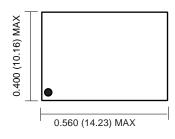
Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned. Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

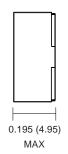


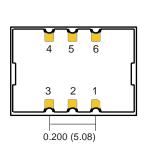
PVB, PVM PECL VCXO Series

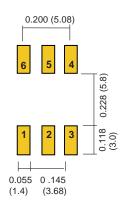




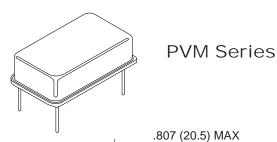


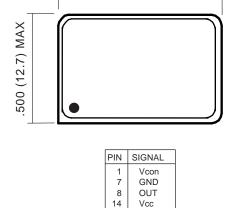


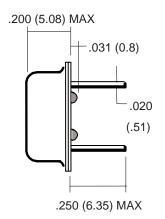


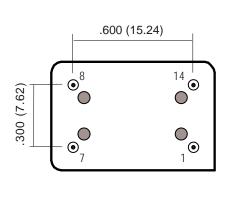


PIN	SIGNAL
1	Vcon
2	E/D
3	GND
4	Q OUT
5	QN OUT
6	Vcc









See page 6 for Layout Guidelines

Mar 2004