



## Product Overview

### NBVSBA027: Crystal Oscillator Module, Voltage Controlled, PureEdge™, 148.5 MHz LVPECL, 2.5 V / 3.3 V

[For complete documentation, see the data sheet](#)

#### Product Description

The NBVSBA027 series voltage-controlled crystal oscillator (VCXO) devices are designed to meet today's requirements for 2.5 V and 3.3 V LVPECL clock generation applications. These devices use a high Q fundamental mode crystal and Phase Locked Loop (PLL) multiplier to provide a wide range of frequencies from 60 MHz to 700 MHz (factory configurable per user specifications) with a pullable range of  $\pm 100$  ppm and a frequency stability of  $\pm 50$  ppm. The silicon-based PureEdge™ products design provides users with exceptional frequency stability and reliability. They produce an ultra low jitter and phase noise LVPECL differential output. The NBVSBA027 series are members of ON Semiconductor's PureEdge™ clock family that provides accurate and precision clock generation solutions.

#### Features

- Operating Range: 2.5 V  $\pm 5\%$ , 3.3 V  $\pm 10\%$
- Ultra Low Jitter and Phase Noise - 0.5 ps (12 kHz to 20 MHz)
- LVPECL Differential Output
- Pulling Range Minimum of  $\pm 100$  ppm
- Frequency Stability of  $\pm 50$  ppm
- Control Voltage with Positive Slope
- Voltage Control Linearity of  $\pm 10\%$
- Short Lead Times

#### Benefits

- Simplifies BOM and Offers Design Flexibility
- Improves System Clock Timing Margins

#### Applications

- Networking
- Clock for Microprocessor/DSP/FPGA
- Storage Area Network
- Broadband Access
- Test and Measurement Equipment

#### End Products

- Line Card
- Server
- Base Station

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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