



Product Overview

NBVSPA042: Crystal Oscillator Module, Voltage Controlled, PureEdge™, 74.25 MHz LVDS, 3.3 V

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

Product Description

The NBVSPXXXX voltage controlled crystal oscillator (VCXO) devices are designed to meet today's requirements for 3.3 V LVDS 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 ± 100 ppm and a frequency stability of ± 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 LVDS differential output. The NBVSPXXXX series devices are a member of ON Semiconductors PureEdge™ clock family that provides accurate and precision clock generation solutions.

Features

- Ultra Low Jitter and Phase Noise 0.5 ps (12 kHz to 20 MHz)
- LVDS Differential Output
- Pullable Range Minimum of ± 100 ppm
- Control Voltage with Positive Slope
- Voltage Control Linearity of $\pm 10\%$
- Frequency Stability of ± 50 ppm
- Operating Range: 3.3 V $\pm 10\%$

Benefits

- Improves system timing budget

Applications

- Networking
- Wireless telecommunications

End Products

- 1/10G Ethernet
- Line Card Clock

For more information please contact your local sales support at www.onsemi.com

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