



Product Overview

NBXDPA017: Crystal Oscillator Module, PureEdge™, 156.25 MHz / 312.50 MHz LVDS, 2.5 V / 3.3 V

For complete documentation, see the data sheet

Product Description

The NBXDPA017 dual frequency crystal oscillator (XO) is designed to meet today's requirements for 2.5 V and 3.3 V LVDS clock generation applications. The device uses a high Q fundamental crystal and Phase Lock Loop (PLL) multiplier to provide selectable 156.25 MHz or 312.5 MHz, ultra low jitter and phase noise LVDS differential output. This device is a member of ON Semiconductor's PureEdge™ clock family that provides accurate and precision clock solutions.

Features

- LVDS Differential Output
- Uses High Q Fundamental Mode Crystal and PLL Multiplier
- Ultra Low Jitter and Phase Noise 0.5 ps (12 kHz to 20 MHz)
- Selectable Output Frequency 156.25 MHz (default) / 312.5 MHz
- Operating Range: 2.5 V +/-5% or 3.3 +/-V 10%
- Total Frequency Stability +/-50 ppm
- This is a PbFree Device

Applications

- Ethernet, Gigabit Ethernet
- Networking

Part Electrical Specifications

Product	Compliance	Status	Input Level	Output Level	V _{DD} Typ (V)	f _{CLKOUT1} Typ (MHz)	f _{CLKOUT2} Typ (MHz)	f (±PPM)	t _{jitter()} Typ (ps)	t _R & t _F Typ (ps)	t _R & t _F Max (ps)	Duty Cycle Min (%)	Duty Cycle Typ (%)	Duty Cycle Max (%)	Package Type
NBXDPA017LNHTAG	Pb-free Halide free	Active	CMOS	LVDS	2.5-3.3	156.25	312.5	50	0.4	115	400	48	50	52	CLCC-6

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

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