

## Product Specification Summary

### 43-GHz Full-Rate, Phase-Locked Clock Source

This is a compact phase-locked clock source designed for use in lightwave communications systems with data rates up to 43 GHz. It is extremely stable and has excellent performance characteristics including low phase noise and high spurious and harmonic suppression.

The module is designed using Narda's advanced fabrication and processing techniques to deliver high reliability and ruggedness, in an enclosure that measures only 70 x 30 x 11 mm.

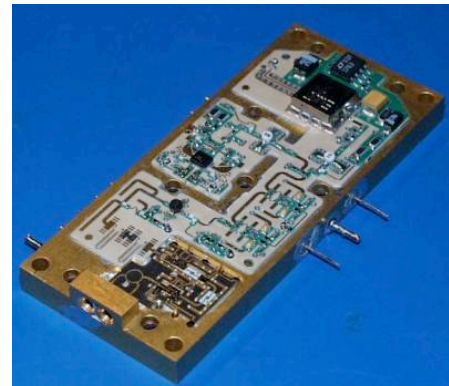
Several parameters of this series can be customized, including clock output and reference input frequencies, power detection range, and other parameters.

## PLDRO Series

### Key features/applications

- Delivers performance required for next-generation lightwave communications systems
- Clock output frequency up to 43 GHz
- Standard differential output voltage of +8 to +18 dBm )
- Broad user-adjustable phase adjustment range
- Rugged, compact enclosure
- Broad user-adjustable phase adjustment range
- Very low phase noise and high harmonic and spurious suppression
- Temperature range of -15 to +70 °C
- Available with different clock output and reference input frequencies, and power detection ranges.

Reference input frequency (MHz)	666 to 672 MHz
Differential input voltage (mVpp)	250 to 750
Clock output frequency (GHz)	42.624 to 43.008
Differential output power (dBm)	+8 to +18
Absolute phase adjustment (deg.)	-400 to +400
Output power detection range (VDC)	0.1 to 0.5
Output phase noise (dBc/Hz)	-90 at 10 kHz offset -112 at 1 MHz offset
Spurious rejection (dB)	40 (harmonic) 80 (reference)
Size (mm)	70 x 30 x 11
Operating temperature range (°C)	-15 to +70



Please consult the factory for detailed product specifications.

**narda**  
microwave-east

an  communications company

Address: 435 Moreland Road, Hauppauge, NY 11788

Phone: (631) 231-1700

Fax: (631) 231-1711

Web: <http://www.nardamicrowave.com>

E-Mail: [nardaeast@l-3com.com](mailto:nardaeast@l-3com.com)

Cleared by DoD/OSR for public release under OSR case number 10-S-1085 on 4 May 2010