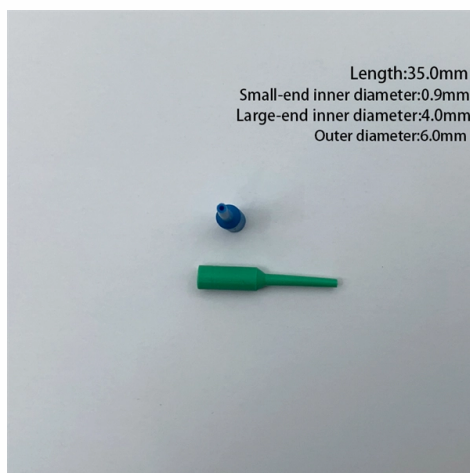


Indian manufacturer of optical transmitters NRZ



Overview

40Gbps InP MZM Transmitter, NRZ, 1550nm – Lucent Technology The NRZ transmitter module consists of InP Mach Zehnder Modulator and conventional Distributed.

Key Takeaways

India has several manufacturers and suppliers of optical transmitters suitable for NRZ modulation, including OPTICA and multiple verified suppliers across Noida, Bangalore, and other industrial hubs. Key Indian Manufacturers

1. Optics and Allied Engineering Pvt. Ltd. (OPTICA), Bangalore Founded in 1985, OPTICA specializes in precision optics, electro-optic systems, and high-power laser components. Their capabilities include opto-mechanical assembly, testing, and fabrication of complex electro-optic systems, which can support high-speed optical transmission applications such as NRZ modulation . OPTICA serves defense, aerospace, and industrial sectors, making it a reliable source for advanced optical transmitters. 2. TradeIndia and IndiaMart Verified Suppliers Several companies in India manufacture and supply optical transmitters suitable for NRZ applications:

- Noida-based suppliers offer Direct Modulated Optical Transmitters (DML) and other high-speed modules .
- IndiaMart listings include manufacturers of fiber optic transmitters, CATV optical transmitters, and OEM solutions across multiple cities .

- Justdial marketplace provides access to suppliers of Directly Modulated Laser (DML), External Modulated Laser (EML), Distributed Feedback (DFB) lasers, and other optical transmitters capable of NRZ operation .

Product Types Relevant to NRZ Transmission

- Directly Modulated Laser (DML) Transmitters – suitable for short to medium-range NRZ data transmission.
- External Modulated Laser (EML) Transmitters – ideal for high-speed NRZ applications up to 40 Gbps.
- Distributed Feedback (DFB) Lasers – provide stable wavelength and optical power for NRZ modulation.
- Vertical Cavity Surface Emitting Lasers (VCSELs) – used in data centers and short-reach NRZ links.

Considerations for Selection

When sourcing NRZ optical transmitters in India, consider:

- Data rate support (e.g., 10 Gbps, 40 Gbps)
- Wavelength stability and modulation type
- Supplier certifications and testing capabilities
- Application requirements (telecom, CATV, data center, or industrial use) By exploring these manufacturers and suppliers, businesses in India can access NRZ-compatible optical transmitters for high-speed optical communication systems.

Article Content

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