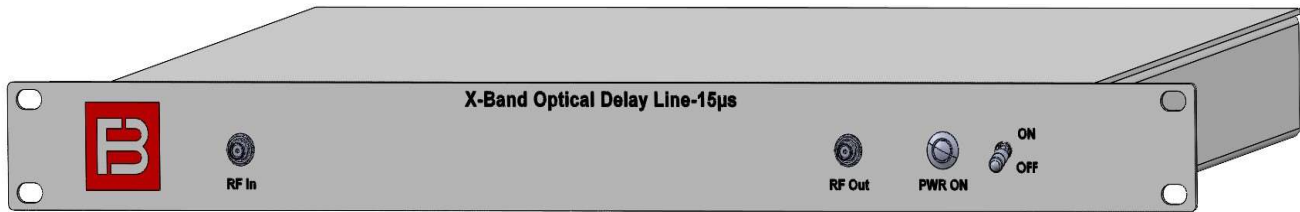




X-Band RF Over Fiber Link



Key Features

- Frequency Range: 8 GHz to 12 GHz
- Fixed Delay Line
- Optical Interface: Single-mode fiber
- RF Interface: SMA connectors
- Dynamic Range: > 100 dB
- Transmission Distance: Up to 40 km (depending on fiber type and configuration)
- Power Supply: 230 VAC

Applications:

- Telecommunications: Ideal for transmitting RF signals over long distances in telecom networks.
- Satellite Communications: Enables high-frequency RF signal transmission in satellite ground stations.
- Radar Systems: Used for radar signal distribution and remote antenna locations.
- Electronic Warfare: Supports RF signal transmission and distribution in military applications.
- Test and Measurement: Provides accurate and reliable RF signal transmission for testing purposes.
- Broadcasting: Facilitates RF signal distribution in broadcasting systems.
- Wireless Communication: Enables RF signal transmission in wireless communication systems.
- Altimeter Testing.

Overview

FemtoBeam's X Band Optical Delay Line module is a versatile solution for transmitting RF signals over long distances using optical fiber technology to create physical delay by adding respective fiber length. It supports a wide frequency range from 8 GHz up to 12 GHz, offering low signal loss, high fidelity, and excellent reliability. This module is suitable for various applications in telecommunications, satellite communications, radar systems, electronic warfare, and more.



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X-Band RF Over Fiber Link

Specifications

| | |
|-----------------------|---------------------|
| Frequency Range | 8 GHz – 12GHz |
| Link Gain | 0 dB |
| Optical Delay | 15 μ s \pm 1% |
| Return Loss | \geq 15dB |
| Input 1dB Compression | -5 dB |
| Amplitude Flatness | +/- 2 dB |
| Spurious Level | Better than -60 dBc |
| Operating Temperature | -20 °C to 50 °C |
| Storage Temperature | -55 °C to 85 °C |
| Voltage | 230 V AC or 12 V |
| Wavelength | 1550nm |
| Dimension | 19", 1U, 400MM |

Part no:

Optical Delay Line: FB-RFOF-ODL-FXD-8G-12G-15 μ s



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