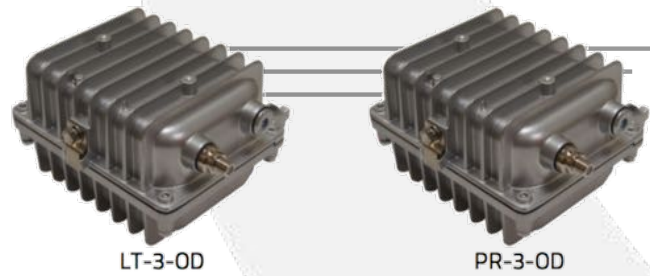




RFLL-3



LT-3-OD

PR-3-OD

DEVICE

3 GHz RF over Fiber Lightwave Link

OVERVIEW

The Optilab RFLL-3 RF over Fiber Lightwave Link is composed of a LT-3-OD lightwave transmitter and a PR-3-OD receiver unit to form a high-performance RFoF link greater than 3 GHz applications.

FEATURES

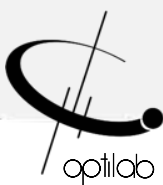
- RFoF Link up to 3 GHz Bandwidth
- High gain receiver with TIA post amplifier
- USB Monitor and Control Interface
- High Dynamic Range
- CWDM laser 1310 nm or DFB

USE IN

- Satcom microwave antenna signal distribution
- Broadband delay-line and signal processing
- Phased and interferometric array antenna
- Low Band RF/IF Signal Distribution
- RF Transmission over Fiber

LINK PERFORMANCE SUMMARY

Frequency	250-3500 MHz
RF Impedance Input	75 ohms
RF Return Loss	10 dB
Fiber	Single-Mode
Wavelength	1310 nm Standard, CWDM from 1270 nm to 1610 nm wavelength available.
Link RF Gain @ 12 dB Optical Loss	-4 ± 5 dB
Analog Bandwidth	3 GHz Typical
Link Gain	12 dB
FILT RF Input	+19 dBmW max.
Optical Output Power	+3 dBm
Noise Figure	< 32 dB @ 3 GHz
Optical Loss	-4 ± 5 dB
Operating Temperature	-40°C to + 60°C





RFL-3

CONFIGURATION DIAGRAM



LT-3-OD, 3 GHZ LIGHTWAVE TRANSMITTER MODULE FOR RFOF

The Optilab LT-3-OD is a high performance Lightwave Transmitter Module designed for analog photonics applications to 3 GHz.

PR-3-OD, 3 GHZ PHOTORECEIVER, MODULE

The Optilab PR-3-OD is a 3 GHz bandwidth PIN photodiode receiver module, designed for RF over fiber, antenna remoting, and broadband RF signals transmission applications using single mode optical fiber.

GENERAL SPECIFICATIONS

LT-3-OD & PR-3-OD	Power Supply Requirements	110 - 220 VAC, 50/60 Hz, 1 A max.
	Fiber Connector Type	FC/APC
	RF Connector	F Type
	Dimensions	146.5 mm x 65 mm x 31.8 mm

CWDM WAVELENGTHS AVAILABLE

1270nm, 1290nm, 1310nm, 1330nm, 1350nm, 1370nm, 1390nm, 1410nm, 1430nm, 1450nm, 1470nm, 1490nm, 1510nm, 1530nm, 1550nm, 1570nm, 1590nm, and 1610nm.

