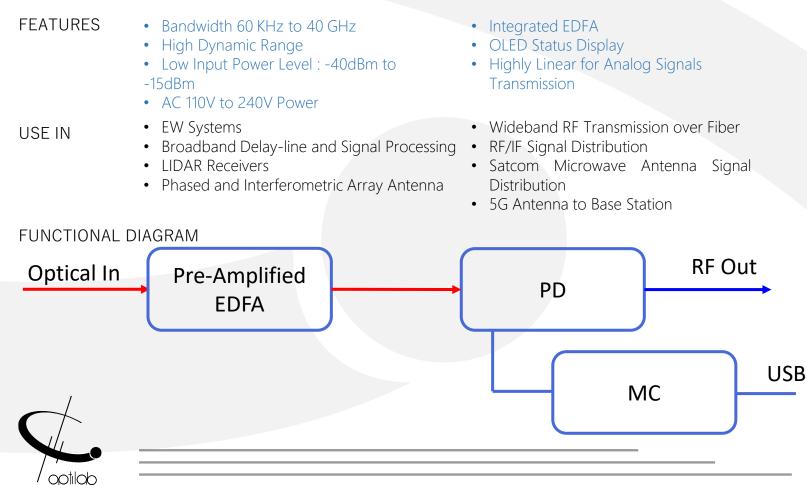




DEVICE

40GHz + Lightwave Receiver Module w/Preamplified EDFA

The Optilab LRC-40x-PA is a 40 GHz + Lightwave Receiver module with
integrated pre-amplifier designed for RF over Fiber, antenna remoting, and
broadband RF transmission applications using single mode optical. The LRC-
40x-PA utilizes an EDFA to send amplified signal directly to photodetector for
low noise amplification and a high linearity. LRC-40x-PA can detect input
power level as low as -40dBm. This cost-effective receiver module can provide
users with status monitoring through OLED status display that communicates
to a host computer over an RS-232 I/O interface via a standard USB 2.0 port.
When the LRC-40x-PA RF over fiber receiver module is linked with the LTC
series of RF over fiber transmitter modules, the combination provides an
excellent solution for ultra-wideband RF to fiber conversion applications.
Contact Optilab for more information.



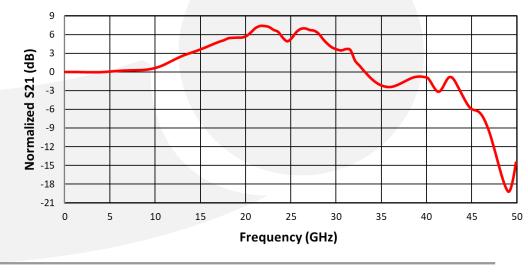


LRC-40x-PA

		1995
SPECIFICATIONS	Photodiode Wavelength Range	1260 nm to 1600 nm
GENERAL	Operational Bandwidth	60 KHz to 43 GHz
	Optical Input Level	-40 dBm min.
	Responsivity	0.60 A/W 🖲 1550 nm typ.
	S21 3 dB Bandwidth	43 GHz typ
	S22 Characteristics	< -10 dB @ 40 GHz
	Optical Return Loss	-30.00 dB typ.
	2 nd Harmonics Distortion	-70.00 dBc max.
	3 rd Harmonics Distortion	-75.00 dBc max.
	Optical PDL @ 1550 nm	0.05 dB typ.
	Amplifier	Pre-Amplified EDFA
	Amplifier Gain	25dB typ 🛽 0dBm
	RF Impedance	50 Ω
	Ripple over Bandwidth	± 1.0 dB max.
MECHANICAL	Operating Temperature (standard)	-10°C to +50°C
	Storage Temperature	-20°C to +80°C
	Power Supply Requirements	AC 110-240V
		(+ 5 V DC Available Upon Request)
	Optical Connectors	FC/APC
	RF Input Connectors	K Connector Female, 50 Ω
	Local Alarm	OLED Display
	Remote Alarm	RS232 Interface (standard) via USB
	Dimensions	280mm x 90mm x 340mm

TYPICAL S21 BANDWIDTH

optilob





ORDERING OPTIONS

LRC-40x-PA-XX

XX DC: DC coupled AC: AC coupled

RELATED TRANSMITTER

• LTC-40



The Optilab LTC-40 is a high-performance Lightwave Transmitter Modulator that can be used with LRC-40x-PA for RFoF conversion application.

