



LRC-23-PA

23GHz Lightwave Receiver Module



LRC-30-PA

30GHz Lightwave Receiver Module w
/Pre-amplified EDFA



- ・シングルモードオプティカルを使用したRF over Fiberアンテナリモーディング
ブロードバンドRF伝送の統合プリンアンプを備えた23GHz/30GHz光波受信機モジュールです。
- ・EDFAを使用して増幅された信号を光検出器に直接送信する。
低ノイズ増幅と高直線性を実現。
- ・USB2.0ポートやRS-232 I/O介してホストコンピュータと通信する事が出来ます。

LRC-23-PA

FEATURES

- Bandwidth 60 KHz to 23 GHz
- High Dynamic Range
- High Input Power Handling Capacity of 35 mW
- AC 110V to 240V Power
- No TIA for Intrinsic Phase Linearity
- OLED Status Display
- Highly Linear for Analog Signals Transmission

LRC-30-PA

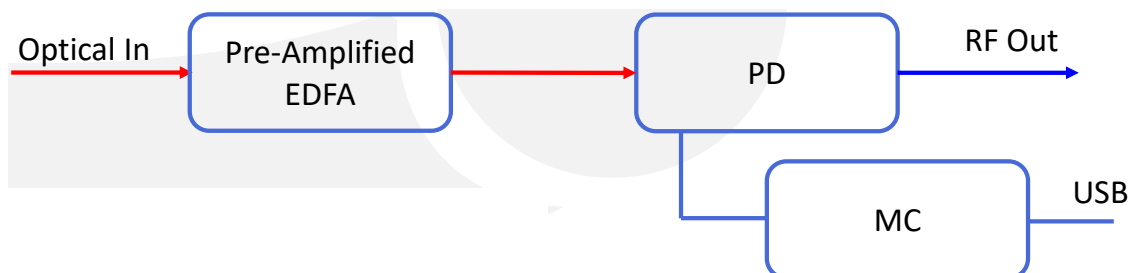
FEATURES

- Bandwidth 60 KHz to 30 GHz
- High Dynamic Range
- Low Input Power Level : -40dBm to -15dBm
- AC 110V to 240V Power
- Integrated EDFA
- OLED Status Display
- Highly Linear for Analog Signals Transmission

USE IN

- EW Systems
- Broadband Delay-line and Signal Processing
- LIDAR Receivers
- Phased and Interferometric Array Antenna
- Wideband RF Transmission over Fiber
- RF/IF Signal Distribution
- Satcom Microwave Antenna Signal Distribution
- 5G Antenna to Base Station

FUNCTIONAL DIAGRAM



詳しい問い合わせ：有限会社アミスター
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E-mail:info@amistar.jp



LRC-23-PA

SPECIFICATIONS

Photodiode Wavelength Range	1260 nm to 1600 nm
Operational Bandwidth	60 KHz to 23 GHz
Optical Input Level	35 mW max.
Responsivity	0.85 A/W @ 1550 nm typ., 0.90 A/W @ 1310 nm typ., 0.40 A/W @ 850 nm typ.
S21 3 dB Bandwidth	19 GHz min., 21 GHz typ.
S22 Characteristics	< -10 dB @ 20 GHz
Optical Return Loss	-30.00 dB typ.
2 nd Harmonics Distortion	-70.00 dBc max.
3 rd Harmonics Distortion	-75.0 dBc max.
Optical PDL @ 1550 nm	0.05 dB max.
Amplifier	Pre-Amplified EDFA
Amplifier Gain	25dB typ @ 0dBm
RF Impedance	50 Ω
Ripple over Bandwidth	$\pm$ 1.0 dB max.

GENERAL

LRC-30-PA

SPECIFICATIONS

Photodiode Wavelength Range	1260 nm to 1600 nm
Operational Bandwidth	60 KHz to 30 GHz
Optical Input Level	20 mW max.
Responsivity	0.85 A/W @ 1550 nm typ.
S21 3 dB Bandwidth	10 GHz typ
S22 Characteristics	< -10 dB @ 20 GHz
Optical Return Loss	-30.00 dB typ.
2 nd Harmonics Distortion	-60.00 dBc max.
3 rd Harmonics Distortion	-70.00 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	$\pm$ 1.0 dB max.

GENERAL

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	SMA Connector Female, 50 Ω
Local Alarm	OLED Display
Remote Alarm	RS232 Interface (standard) via USB
Dimensions	280mm x 90mm x 340mm

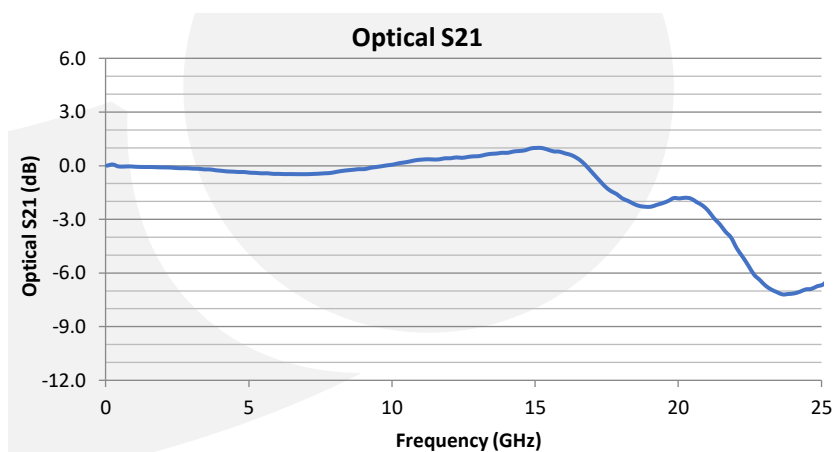


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TYPICAL S21 BANDWIDTH

LRC-23-PA



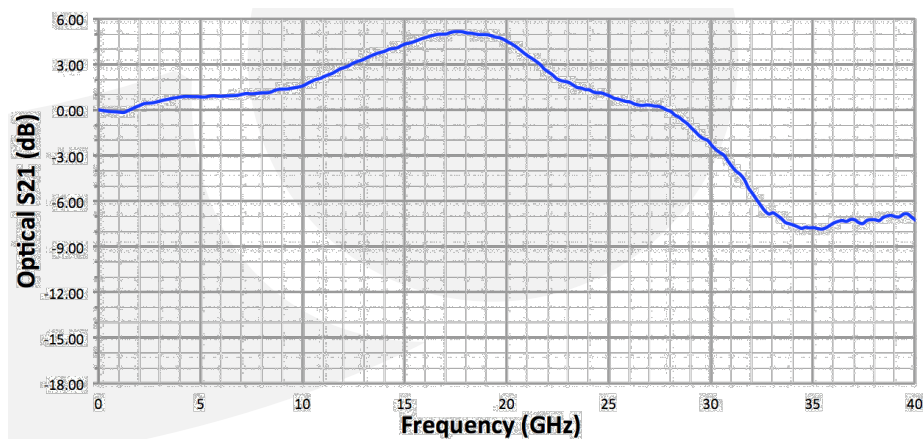
ORDERING OPTIONS

LRC-23-PA-XX

XX DC: DC coupled
AC: AC coupled

TYPICAL S21 BANDWIDTH

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ORDERING OPTIONS

LRC-30-PA-XX

XX DC: DC coupled
AC: AC coupled



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