

LB-200A SERIES FTTH OPTICAL RECEIVER

DESCRIPTION

LB-200A Series FTTH optical receiver is a compact optical receiver, designed for FTTH (Fiber To The Home) networks.

LB-200A has AGC, adjustable Attenuator and an optional PON pass through port to connect to an ONT.

FEATURES

- Compacted in size
- AGC (-7 to 0dBm)
- Optional Built-in WDM for PON Pass Thru
- Low noise and high sensitive PIN Diode
- 0~10dB adjustable attenuator
- Low power consumption <2.6W
- External power supply adapter
- Cost effective



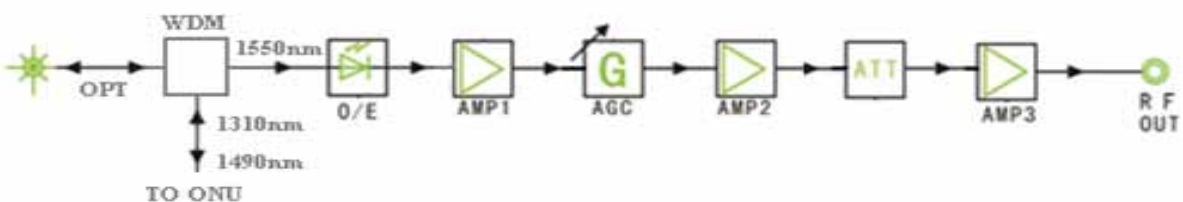
BLOCK DIAGRAM



LB-200A-1 FTTH Optical Receiver (1100 – 1650nm)



LB-200A-2 FTTH Optical Receiver (1550nm)



LB-200A-3 FTTH Optical Receiver (PON Pass Thru Port)

SPECIFICATIONS

Optical Characteristics (LB-200A-1 FTTH Optical Receiver (110-1650nm))

PARAMETER	CONDITIONS	Specification	UNIT
Optical Receive Wavelength		1100 ~ 1650	nm
Optical Input Power		- 10 to +2	dBm
AGC Range		- 7 to 0	dBm
Optical Input Return Losses		≥50	dB

Optical Characteristics (LB-200A-2 FTTH Optical Receiver (1550nm))

PARAMETER	Specification	UNIT
Optical Receive Wavelength	1550 ± 10	nm
Optical Input Power	- 10 to +2	dBm
AGC Range	- 7 to 0	dBm
Optical Input Return Losses	≥50	dB

Optical Characteristics (LB-200A-3 FTTH Optical Receiver (PON Pass Thru Port))

PARAMETER	Specification	UNIT
Optical Receive Wavelength	1550 ± 10	nm
PON Pass-through Wavelength	1310/1490	nm
Optical Isolation	Reflect	40 @ 1310/1490nm
	Pass	25 @ 1550nm
Optical Input Power	- 10 to +2	dBm
AGC Range	- 7 to 0	dBm
Optical Input Return Losses	≥50	dB

RF Characteristics

PARAMETER	Specification	UNIT
Frequency Range 2	47 to 1002	MHz
Flatness of Frequency Response	±0.75	dB
Output RF Level	30	dBmV
ATT Adjustment Range	0 to 10	dBm
CTB (Note 1)	≥62	dB
CTBSO (Note 1)	≥62	dB
C/N (Note 1)	≥51	dB

GENERAL PARAMETERS

Optical Input indicator LED	Green: -7 to 0dBm Red: <7 ±1dBm, >0±1dBm, no input optical power	
Power Consumption With 9VDC power pack	<3.6	W
Operating Temperature	-20 to +50	°C
Dimensions	(W x H x L)	68 x 115 x 28 mm

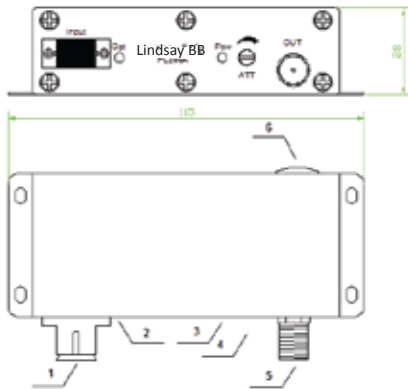
NOTES:

- 1dBm optical input, 3.5% OMI/ch, 54 to 550 MHz analog channels, and digital compressed channels above 550MHz to 1220 MHz at levels 6 dB below equivalent video

* Specifications subject to change without notice.

Copyright © 2017 Lindsay Broadband Inc.

MECHANICAL DRAWINGS



No	Description
1	Optical Input Port
2	Optical Power Indicator
3	Power ON/OFF Indicator
4	0~10dB Adjustable Attenuator
5	RF Output Port
6	DC12V Power Jacket

LB-200A-1 & LB-200A-2 FTTH Optical Receiver



No	Description
1	Optical Input Port
2	Optical Power Indicator
3	Power ON/OFF Indicator
4	0~10dB Adjustable Attenuator
5	RF Output Port
6	DC9V Power Jacket

LB-200A-3 FTTH Optical Receiver

ORDERING MATRIX

LB-200A	Input Wavelength		Power Adapter		Optical		RF Bandwidth	
		<u>X</u>		<u>XX</u>		<u>XX</u>		<u>1</u>
1	1100 - 1650nm	US	US/North American	SA	SC/APC	1	47 - 1002MHz	
2	1550 ± 10nm	EU	European	FA	FC/APC			
3	1550 + PON	UK	European					

FOR MORE INFORMATION ON OUR WIRELESS, OPTICAL AND RF PRODUCTS

CALL - 18-800-465-7046 OR

U.S. Sales Toll Free: 877-672-4340

www.lindsaybroadbandinc.com