

DESCRIPTION

The Radiant Model VB150 L-Band Fiber Transport System transports RF signals between 950Mhz and 2200Mhz up to 50 km over a single optical fiber. By reproducing the original RF signal at the receiving end of the link, the system remains format independent.

DESCRIPTION

The VB150 is a high performance, cost-effective solution for transporting L-Band signals over single mode fiber. The links have low noise characteristics (CNR up to 50 dB or better), a wide temperature range (-40° to +60°C) and are easy to install. The pass band is flat within +/- 2 dB over ANY 500 MHz range.



▶ VB150 L-Band Transmission System

BENEFITS

Protocol transparent -transmits video, audio &/or data

LNB Power through

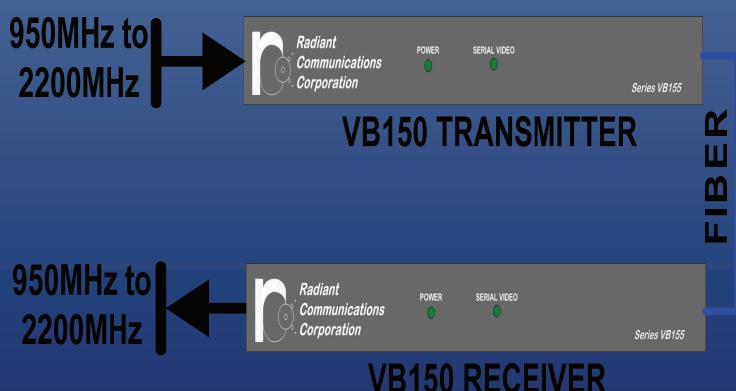
Transmission distances of 50 km

FEATURES

Broadband transmission from 950 to 2200 MHz

Options for 50 and 75ohm models

Options for CWDM AND DWDM Systems (ITU Grid)



Radiant Communications Corporation

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► VB150 L-Band Transmission System

SPECIFICATIONS

Electrical

75 Ohm Models (F Connector)
I/O Impedence 75 Ohms
50 Ohm Models (SMA Connector)
I/O Impedence 50 Ohms
Carrier-to-Noise Ratio (@ 0dB Opt. Loss, 27 MHz BW)
RF Input Level = 10 dBmV 40 dB
RF Input Level = 20 dBmV 50 dB
Carrier-to-Noise Ratio (@ 12dB Opt. Loss, 27 MHz BW)
RF Input Level = 10 dBmV 25 dB
RF Input Level = 20 dBmV 38 dB
Link RF Gain (@0 dB Opt. Loss) 15 21 25 dB
Link RF Gain (@12 dB Opt. Loss) -9 -3 +1 dB
RF Gain Variation Over Temp. -2 +2 dB
Composite 1 dB Compression Point +34 dBmV
Second Order Intercept Point (IP2) - 0 dB Opt. Loss +50 dBmV
Second Order Intercept Point (IP2) - 12 dB Opt. Loss +57 dBmV
Third Order Intercept Point (IP3) +48 dBmV
Noise Figure (@ 0 dB Opt. Loss) 15 dB
Noise Figure (@ 12 dB Opt. Loss) 32 dB

Optical

Wavelength: 1310nm, 1550nm, CWDM, DWDM
Number of Fibers: 1
Optical Connector: SC/APC, SC, FC, FC/APC

General Characteristics

Power: 15W @ 90 to 240V AC
Operating Temp: -40° to 60° C
Size: 17.0" W x 13.0D x 1.75" H

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
VB150S-T-XY3	L-Band 950MHz—2200MHz, Transmitter	12dB	35 km
VB150S-R-XY3	L-Band 950MHz—2200MHz, Receiver	12dB	35 km

Note:

- Specify X—packaging of the unit: U—IU rack mount, M—modular (standalone), R—card cage rack mount
- Specify Y—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC
- Add -48 for 48VDC power
- For 1550nm, CWDM and DWDM versions contact factory
- Due to product enhancements, specifications are subject to change without notice



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