

DESCRIPTION

Radiant Communications VL2510B units are a 10 channel AM broadband optical transmitter and receiver. Unlike other low band products, the channels can be slotted anywhere between 5 MHz and 350 MHz. They do not have to be restricted to a single octave. As an example, the VL2510B system can transmit channels 2 (54 MHz) through 13 (216 MHz). The VL2510B system will handle more than 10 channels. However the specifications noted are for 10 channels. For 10-channel loading the dynamic range is +7 dB approximately 20 km. Additional channels lower some of the specifications.

▶ VL2510 Broadband Transport

▶ BENEFITS

- Simple installation and operation
- Transmission distances of 20 km

▶ FEATURES

- 10 channel unit
- 5 to 350 MHz bandwidth
- One U high rackmount units
- Use to send RF reverse signals in small systems



**Radiant
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2/2005

▶ VL2510 Broadband Transport

SPECIFICATIONS

Transmitter

Wavelength:	1310 nm +/- 40 nm
Laser type:	FP, DFB
Optical Output Power:	1mW, 2mW
Connector type:	SC/APC or FC/APC
Fiber Core:	9/125 um
Bandwidth:	5-350 MHz
Response:	>= 1dB
Flatness:	<+/- 0.55 dB
RF Input return loss:	≥ 16 dB
RF connector:	F type
Input Impedance	75 ohm
Operating Temperature:	-10 to +40° C
Storage Temperature:	-30 to +80° C
Power:	90 ~ 240 VAC
Dimensions:	17" W x 1.7" H x 10.6" D
CTB:	> 60 dBc
CNR:	> 48 dBc
CSO:	> 55 dBc

Receiver

Bandwidth:	5—350 MHz
Flatness:	< +/- 0.75 dB
Output return loss:	>16 dB
Second Order Distortion:	<-70 dBc
Triple Order Distortion:	<-75 dBc
RF Amplifier:	19 dB gain
Maximum optical input:	+3 dBm
Minimum optical input:	-6 dBm
Optical Wavelength:	1310 nm
Optical Connector:	SC/APC
RF Connector:	F type
Operating Temperature:	-10° to +40° C
Storage Temperature:	-30° to +80° C
Power:	10W @ 90 to 240V AC
Dimensions:	17.0" W x 10.6 D x 1.7" H

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
VL2510B-R	CATV 10 Channel Receiver
VL2510B-T	CATV 10 Channel Transmitter

Note:

- For higher optical budgets and distances, CWDM and DWDM systems, contact factory



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