

RF FIBER OPTIC LINK

50 - 2400 MHz

FOL11

Product Features

- WDM: Uplink and Downlink transmission in different wavelengths with built-in WDM for single fiber optic operation.
- RS-232 Interface: Allows signaling and alarm report over a very friendly interface.
- Note: Fiber Optic link for outdoor operation (IP65 enclosure), and for 19" rack mount are optional.



Fiber Optic Link

Applications

- Tunnels
- Broadband RF over fiber applications
- Subways
- BTS hotels



Technical Specification

Value

Wavelength Tx path	1550 nm
Rx Path	1310 nm
Optical output value (typ)	+3 dBm +/- 1.5 dBM
Optical return loss	-45 dB Min
Bandwidth Tx Path	50-2400 MHz Min
Rx Path	50-2200 MHz Min
RF Gain 50-520 MHz	1dB +/- 3 dB
800-960 MHz	1dB +/- 3 dB
1700-2400 MHz	-1dB +/- 3.5 dB
RF VSWR	1.5:1 Min
OIP3 50-520 MHz	+27 dBm Min
800-960 MHz	+26 dBm Min
1700-2400 MHz	+25 dBm Min
Supply voltage	+12 VDC +/- 0.5 VDC
Current consumption (@ 12 VDC)	300 mA typ
Optic Connector	SC/APC
RF Connector	SMA female
Power/Comm Connector	9 Pin male
	D-Sub
MTBF	>100,000 hours
Dimensions	5.5x4.7x1 in • 140x120x25 mm

Maximum Rating

Value

Optical output power	4 mW typ
RF Input Power	+10 dBm Max

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Alarms	Value
Output Optic power below -5dBm	LD
Input optic power below -15 dBm	PD

Power/Comm Connector pin out	Pin
Modem Enable	1
GND	2
VCC (+12V)	3
TXD	4
RXD	5
LD Monitor	6
LD Alarm	7
PD Monitor	8
PD Alarm	9

Remarks: Modem enable active low

Alarm type: Open collector, Normal-High, Alarm-Low

TXD and RXD: RS-232 interface