

# RF FIBER OPTIC LINK

## 47 - 2700 MHz

### 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



Specification	Value
Frequency bands	47 - 2700 MHz
Fiber Wavelength	1310±20nm(uplink) 1550±20nm (downlink)
Fiber Output Power	-16~6dBm
Fiber input Power	-15~6dBm
Transmit No Fiber Alarm	≤-3dBm
Receive No Fiber Alarm	≤-16dBm
WDM	Built-in WDM
Optical Connector	FC/APC
Transmit Optical Power Testing	Rang-6~6dBm, Error±2dB
Receiver Optical Power Testing	Rang-16~6dBm, Error±2dB
AGC Function	4dB automatic compensation
Link Gain	Uplink: 0 ±2dB Downlink: 0 ±2dB (700M, 900MHz, 1.8GHz, 2100MHz, 2500MHz)
Gain Adjustment Range (ATT)	Range≥20dB, Step 1dB, Error±1.5dB
RF Bandpass Flatness	≤2dB; 47-2700 MHz Flatness≤6dB
VSWR	≤1.4
IMD	≤-60dBc(-3dBm/2CH)
Noise Floor	≤-128dBm/Hz (0dB for RF gain, 0dB for optical decrease)
RF Isolation	≥60dB
Stray	≤-60dBm/100KHz (100MHz ~3GHz)
Group Delay	≤60ns
Operating Temperature	-4° to 149° F • -20° to +65° C
Operating Current	≤200mA(+12V Power Supply)
Power Supply	DC+12V (6~15V) Power Consumption lower than 4.5W
Communication Interface	Using DB9 female head, Supply Dual Communication interface RS232. Data Rate: 9600bps (Optional)
Dimension	5 x 3 x 1 inches • 127 x 76.4 x 27.5 mm

DOC BD10709 - 21032018 - MDG  
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FOL11

Pin	Name
PIN1	NC
PIN2	GND
PIN3	VCC
PIN4	TXD1/B1
PIN5	RXD1/A1
PIN6	RXD0/A0
PIN7	LD ALM
PIN8	TXD0/B0
PIN9	PD ALM