

Single Link L-Band Fiber Transmitter/Receiver

Twin Star - FILT/FILR



FILT



FILR

The FILT-S3A-3000 L-Band fiber optic transmitters and FILR-S4A-3000 receivers provide a cost-effective method of transporting L-Band signals to satellite receivers with the EMI immunity and superior performance inherent in fiber optic links. A typical application would be to transport LNB signals from a remote TVRO site to the headend facility as an alternative to coaxial distribution avoiding its associated high loss and slope. The FILT/FILR, along with Blonder Tongue's L-Band distribution amplifiers, optical couplers and L-Band passive devices can also be used in distributing L-Band signals within MDU's.

○ Features & Benefits

- Affordable Alternative to Coaxial LNB Cabling
- Compact and Environmentally Protected Housing
- 250-3500 MHz Bandwidth For Enhanced Frequency Stacking Applications
- 18 dB Optical Loss Budget

○ Specifications

RF

Frequency: 250-3500 MHz
 RF Impedance Input: 75 Ω
 RF Return Loss: 10 dB
 Wavelength: 1310 ± 30 nm
 Fiber: Single-Mode
 Link RF Gain @ 12 dB Optical Loss: -4 dB to +5 dB
 Noise Figure (LINK): ≤32 dB
 FILT RF Input: +19 dBmV (max)
 Optical Output Power: +3 dBm
 FILR Optical Input: -15 dBm to +3 dBm

Alarm

Receiver: Received Optical Power Low
 (Open Collector Output)
 Operating Temperature: -40 to +60 °C

Connectors

Optical: FC/APC (2.14 mm Key)
 RF: "F" Female

Power

	TX	RX
8 VDC:	250 mA	200 mA
12 VDC:	170 mA	150 mA
15 VDC:	135 mA	120 mA
18 VDC:	115 mA	100 mA
24 VDC:	85 mA	70 mA

Mechanical

Dimensions (W x H x D):
 5.75 x 2.56 x 1.25 in.
 146.4 x 65 x 31.8 mm
 Weight: 1 lbs., .454 kg

Please refer to the Product Instruction Manual for more specifications.

○ Ordering Information

Model	Stock No.	Description
FILT-S3A-3000	7531C	L-Band Fiber Optic Transmitter, Single-mode 250-3500 MHz, 1310 nm, FC/APC Connector
FILR-S4A-3000	7532C	L-Band Fiber Optic Receiver, Single-mode 250-3500 MHz, 1310 nm, FC/APC Connector
Accessories		
ACCS-PS-170	7419	Power Supply, Compact Wall Mount 120 VAC @ 60 Hz to 15 VDC @ 400 mA