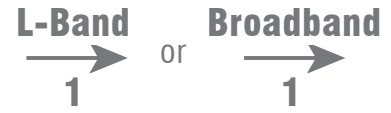




710

L-Band/Broadband Fiber Optic Transmission Systems



**“Not just L-Band, it is also
Broadband”**



“Our RF optical products are reliable and economical.”

Applications

Extend L-Band Satellite Signal Over
Fiber Optic Link

Extend Broadband RF Wireless Signal
Over Fiber Optic Link

Maintain Highest RF Signal Fidelity
Over Long Distance

Features

Broadband Transmission, Beyond
L-Band 950MHz to 2.15GHz

Transmits all Video, Audio and Data
Modulation Formats

Wide Dynamic Range

Extended Operating Temperature Range

The 710 Series is a high-performance L-Band RF Optical Transmission System. It transmits a broadband (48MHz to 2.7GHz, thus covering 950MHz to 2.15GHz L-Band) RF signal over singlemode fiber, and maintains the highest signal fidelity over long distance.

The 710 features either a low cost Fabry-Perot laser system or a long distance DFB laser system. It also has a choice of either 0dB or 20dB RF link gain. Standard connector is a 50 Ohm SMA connector. Optical connector comes with either FC/APC or SC/APC option. Its operating temperature range is from -40 degrees C up to +75 degrees C.

The 710 design is capable of addressing a variety of non-standard designs. Contact us to discuss your custom, OEM/private brand and high volume requirements.



710

L-Band/Broadband Fiber Optic Transmission Systems

Network Data Transmission Systems



RF Signal

Frequency Range	48MHz to 2.7GHz
Connector	50 Ohm SMA Connector
Return Loss	Across the Band is -14 dBm coverage, with peak at 1.4 GHz @ -10 dBm and 2.7 GHz at -9.5 dBm
Input Signal Range (typical)	-20 to -60 dBm
RF Link Gain	0 +/- 1 dB (option available for 20 +/- 1 dB using LNA)
Freq. Response (typical)	+/- 2.0 dB
Spur Free Dynamic Range (SFDR), typically	109 (dB/Hz) ^{2/3}
Input Noise Floor (typical)	-133 dBm-Hz
Input Third Order Intercept (IIP3), typically	30 dBm (with LNA option: 8 dBm/1 GHz and 4 dBm/2 GHz)
Noise Figure (typical)	40.8 dB (with LNA option: 22.8 dB/1 GHz and 29.8 dB/2 GHz)

Optical Link

Wavelength	1310 or 1550 nm
TX Output Power	+1.5 dBm (Fabry-Perot Laser), +3 dBm (DFB Laser)
Optical Connector	FC/APC or SC/APC
Typical Distance	2 km (Fabry-Perot Laser) 25 km (DFB Laser)

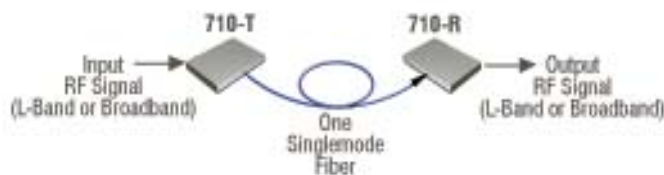
Electrical

Power Requirement	12 VDC/0.4A
Operating Temperature	-40 to +75 degree C

Physical

Dimension: (H x W x D)	
Standalone unit	0.8" x 1.68" x 4.55"
Card Cage Plug-in Card	5.24" x 0.94" x 11.6"
Power Connector	2.5 mm Jack
Status Indicators	Power, Channel

Application



DOING MORE WITH ONE FIBER *plus*

Subject to continued product enhancement, we reserve the right to change the above specifications and description without notice.

