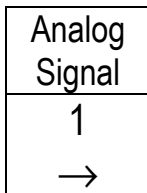


ECT100 SERIES

ECT100-AS-L SINGLE CHANNEL UNIVERSAL ANALOG SIGNAL FM OPTICAL LINK WITH UP TO 120 km/75 mi RANGE



The ECT100-AS-L FM system provides high performance link for unidirectional transmission of various analog signals over a fiber optic cable. The ECT100-AS-L FM transmitter/receiver is fully compatible with ECT200-AS, ECT200-AS-L, ECT400-AS & ECT400-AS-L type systems allowing for mixed configurations when required. The ECT100-AS-L system utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

ORDERING INFORMATION

100S-AST/I-M1Z-L – transmitter module
 100S-ASR/I-M1Z-L – receiver module

I = 50, 75, 100, Custom for input/output impedance

Z = FC, SC, ST for optical connectors

FEATURES

- ❑ FM Transmitting Technology
- ❑ Wide Bandwidth Transmission from 10 Hz to 30 MHz
- ❑ Universal Balanced/Unbalanced Input for Transmitter
- ❑ Supports Transmission of Various Analog Signals such as: HDTV Tri-Level Sync, T1/E1, RF/IF, Timing, Telemetry Signals and more
- ❑ Operating Range Up to 120 km / 75 miles
- ❑ High Accuracy In/Out Signal Transmission with No Adjustments
- ❑ Power and Signal Status Indicators

Operating Wavelength	1550 nm
Optical Core Diameter	8/10µ
Optical Power Source	DFB Laser
Optical Power Output	0 (+/- 0.5) dBm
Receiver Sensitivity	-37 dBm
Optical Connectors	ST, SC, FC

Signal Bandwidth @ 2dB	10 Hz - 30 MHz
Input Impedance (TX)	50, 75, 100 Ohm, Custom universal: balanced or unbalanced; up to 1 MOhm – unbalanced
Output Load Impedance (RX)	50, 75, 100 Ohm, Custom
Input/Output Signal Level*	0 to +/- 2 V @ 50 Ohm 0 to +/- 2.5 V @ 75, 100 Ohm
Signal Transfer Accuracy*	< 5% @ 10 Hz – 10 MHz < 10% @ 10 MHz – 20 MHz < 20% @ 20 MHz – 30 MHz
Signal-to-Noise Ratio*	64 dB
Input/Output Connector	BNC
Power Requirements:	
Transmitter Module	11 - 14 VDC @ 150mA, 21 - 27 VAC @ 100mA
Receiver Module	11 - 14 VDC @ 250mA,
Operating Temperature	0°C to +60°C (32°F to +140°F)
Dimensions:	
Transmitter Module	3.20"(81mm) x 3.72"(95mm) x 1.1"(28mm)
Receiver Module	4.17"(106mm) x 3.65"(93mm) x 1.1"(28mm)

*measured with 1km optical cable and 10 dBm optical attenuation.

Note: The specifications are subject to change without notice.



Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235
 Tel (718) 743-2869 • Fax (718)648-3642 • E-mail sales@elcommtech.com
<http://www.elcommtech.com>