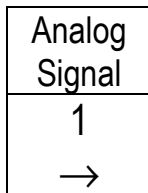


ECT100-AS

ONE CHANNEL FM UNIVERSAL ANALOG SIGNAL OPTICAL LINK



The ECT100-AS FM system provides high performance link one unidirectional transmission of various analog signals over one a fiber optic cable. The ECT100-AS utilizes wideband linear frequency modulation/demodulation and very low noise transmission technology to assure high quality and stability.

The ECT100-AS FM transmitter/receiver is fully compatible with ECT400-AS type systems allowing for mixed configurations when required.

ORDERING INFORMATION

100E-AST/I-M1Z – transmitter module

100E-ASR/I-M1Z – receiver module

E = M for multimode 850 nm
 = M(13) for multimode 1300 nm
 = S for single mode receiver or 1310 nm transmitter
 = S(15) for single mode 1550 nm transmitter
 = S(15)D for single mode 1550 nm DFB transmitter

I = 75, Custom for input/output impedance

Z = FC, ST for optical connectors

FEATURES

- ❑ Wideband FM Transmitting/Receiving Technology
- ❑ Universal Balanced/Unbalanced Input for Transmitter
- ❑ Supports Transmission of Various Analog Signals such as: Video, Sync, RF/IF, Timing, Telemetry Signals and more
- ❑ Multimode and Single Mode Versions
- ❑ High Accuracy In/Out Signal Transmission with no Adjustments
- ❑ Signal Status Indicators

Operating Wavelength	850 nm	1310/1550 nm
Optical Core Diameter	50μ/62.5μ	8/10μ
Optical Power Source	VCSEL	Laser
Optical Power Output*	-4 dBm	-4 dBm
Receiver Sensitivity:	-23 dBm	-28 dBm
Optical Connectors	ST	FC, ST

* with +/- 1 dBm variation.

Signal Bandwidth @ 3 dB	10 Hz - 10 MHz
Input Impedance (TX)	75 Ohm, Custom balanced, unbalanced
Output Load Impedance (RX)	75 Ohm, Custom
Input/Output Signal Level	0 to +/- 5 V @ 75 Ohm
Signal-to-Noise Ratio*	62 dB
Input/Output Connector	BNC
Power Requirements:	
Transmitter Module (TX)	11 - 15 VDC @ 0.3 A
Receiver Module (RX)	13.5 VDC @ 0.5 A regulated
Operating Temperature	-20°C to +60°C -4°F to +140°F
Dimensions (w/o connectors):	
Transmitter	3.20" x 3.72" x 1.1" 81mm x 95 mm x 28 mm
Receiver	4.17" x 3.65" x 1.1" 106 mm x 93 mm x 28mm

* measured with 100m for multimode and 1km for single mode optical cable.

Note: The specifications are subject to change without notice.



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