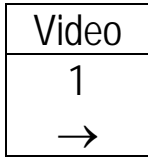


ECT100 SERIES

ECT100-R FM VIDEO OPTICAL LINK WITH 0 - 5 V SIGNAL LEVEL RANGE



The ECT100-R system provides high performance link for transmitting a unidirectional video signal 0 - 5 Vp-p over a fiber optic cable. The ECT100-R system is designed to be used a remote transmission solution for radar and special purpose display applications. The link can be also used to transmit video gen-lock, sync, and component video signals over fiber optic cable.

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

The ECT100-R utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

ORDERING INFORMATION

100E-VT-M1Z-R – transmitter module
 100E-VR-M1Z-R – receiver module

- E = M for multimode
- = M(13) for multimode 1300nm
- = S for single mode 1310nm
- = S(15) for single mode 1550nm

Z = ST or FC optical connectors

FEATURES

- ❑ Remote Transmission Solution for Radar Display Applications
- ❑ Composite and Component Video Transmission
- ❑ Video Gen-Lock and Sync Transmission
- ❑ Balanced Video Input
- ❑ Multimode and Singlemode Versions
- ❑ Power and Signal Status Indicators

Operating Wavelength	850 nm	1300 nm	1310/1550nm
Optical Core Diameter	50μ/62.5μ		8/10μ
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-8 dBm	-14 dBm	-8 dBm
Receiver Sensitivity	-31 dBm	-33 dBm	-33 dBm
Optical Connectors	ST		FC, ST

*with +/- 1 dBm variation; higher power laser sources are available per special request.

System Bandwidth @ 1dB	10 Hz – 16 mHz
Signal Input Impedance (transmitter)	75 Ohm balanced
Input/Output Signal Level	0 - 5 V p-p @ 75 Ohm
Signal-to-Noise Ratio*	65 dB
Differential Gain*	< 5%
Differential Phase*	< 3°
Sync Tilt (standard window signal)	< 1%
Power Requirements (transmitter)	11 - 14 VDC @ 150mA, 21 - 27 VAC @ 100mA
Power Requirements (receiver)	15 - 17 VDC @ 250mA
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Tx Module Dimensions (without connectors)	3.20"(81mm) x 3.72"(95mm) x 1.1"(28mm)
Rx Module Dimensions (without connectors)	4.17"(106mm) x 3.65"(93mm) x 1.1"(28mm)

*measured as per RS-250C @ 1km, 62.5μ cable



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