

ECT100-MM-R

FM VIDEO MINI TRANSMITTER MODULE WITH 0 - 5 V INPUT SIGNAL LEVEL RANGE



The ECT100-MM-R FM Video Mini Transmitter provides high performance link for unidirectional transmission of video signal

0 - 5 V over a fiber optic cable. The unit is designed to be used a remote transmission solution for radar and special purpose display applications.

The ECT100-MM-R FM Video Mini Transmitter can be also used to transmit video gen-lock, sync, and component video signals over fiber optic cable.

The ECT100-MM-R FM Mini Transmitter is fully compatible with ECT100-R and ECT400-R type receiving systems allowing for mixed configurations when required.

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

FEATURES

- ❑ Remote Transmission Solution for Radar Display Applications
- ❑ Composite and Component Video Transmission
- ❑ Video Gen-Lock and Sync Transmission
- ❑ Isolates EMI, RFI, Ground Loops
- ❑ Multimode and Singlemode Versions
- ❑ Power/Signal Status Indicator
- ❑ Compatible with 6 - 12 VDC Power Sources

Operating Wavelength	850 nm	1300 nm	1310/1550nm
Optical Core Diameter	50μ/62.5μ		8/10μ
Optical Power Source	VCSEL	Laser	Laser
Optical Power Output*	-3 dBm**	-10 dBm**	-4 dBm
Optical Connectors	ST		FC, ST

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

** measured with 62.5μ multimode 1m patch cord.

System Bandwidth @ 2 dB	10Hz - 18 MHz
Signal Input Impedance	75 Ohm unbalanced
Input Signal Level	0 - 5 V @ 75 Ohm
Signal-to-Noise Ratio*	64 dB
Differential Gain*	< 4%
Differential Phase*	< 4°
Sync Tilt	< 1 %
(standard window signal)	
Power Requirements	6-12 VDC @ 100mA
Operating Temperature	-20°C to +70°C (-4°F to +158°F)
Dimensions	2.73"(69.4mm) x 1.0"(25.4mm) x 0.92"(23.4mm)

*measured with ECT100-R receiver as per RS-250C @ 100m for multimode and 1km for single mode optical cable



ORDERING INFORMATION

100E-VT-MY1Z-R – Video transmitter module

- E = **M** for multimode 850 nm
- = **M(13)** for multimode 1300 nm
- = **S** for single mode receiver or 1310 nm transmitter
- = **SP** for single mode high power (≥ 0 dBm) 1310 nm transmitter
- = **SPD** for single mode high power (≥ 0 dBm) 1310 nm / DFB transmitter
- = **S(15)** for single mode 1550 nm transmitter
- = **S(15)P** for single mode high power (≥ 0 dBm) 1550 nm transmitter
- = **S(15)D** for single mode 1550 nm / DFB transmitter
- = **S(15)PD** for high power (≥ 0 dBm) 1550 nm / DFB transmitter
- = **S(W)** for single mode CWDM / DFB transmitter
- = **S(W)P** for high power (≥ 0 dBm) CWDM / DFB transmitter

CWDM wavelength (**W**): **14.7**(1470 nm), **14.9**(1490 nm), **15.1**(1510 nm), **15.3**(1530 nm),
15.5(1550 nm), **15.7**(1570nm), **15.9**(1590 nm), **16.1**(1610 nm).

- Y = **M** for modular version (with metal housing),
- B** for open board version

- Z = **FC**, **ST** for optical connectors

