

OM-7

Fiber Optic Analog Video Link

Applications

- Remote surveillance
- High quality video systems



Description

When higher quality video is desired, use the OM7-T to transmit NTSC or PAL baseband video signals over a multimode fiber.

The OM7-R receives this signal and outputs high quality video.

Features:

- Compact
- Low cost
- Good link margin
- High quality video
- Power indicator
- Optical Link indicator
- Squelch
- Automatic gain control
- Video clamping circuit
- Low power consumption
- Stand alone or Rack mount
- NTSC or PAL

Specifications

Optical		
Light source		SLED for multimode fiber
Operating Wavelength	M version	850 nm
	MM version	1300 nm
Optical output	50/125 fiber	-19 dBm min.
	62.5/125 fiber	-16 dBm min
Optical Sensitivity		-28 dBm
Optical Connectors		ST
Operating distance with 62.5/125 fiber		
	at 3dB loss/Km M version	4Km
	at 1dB loss/Km MM version	12Km

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Specifications

Analog Interface

Differential Gain	< 3%
Differential Phase	< 2°
Amplitude vs Frequency	3%
Chrominance to Luminance gain inequality	< -1/+4 IRE
Chrominance to Luminance delay inequality	< 20 ns
Luminance Non-Linearity	< 2.5%
Chrominance Non-Linear Gain	< 2%
Dynamic Gain of Luminance	2%
Dynamic Gain of Sync	2 IRE
Analog I/O connectors	BNC coaxial
Input Level including sync tip	0.9-1.3Vpp
Output Level including sync tip	0.95-1.05Vpp
Input Impedance OM7-T	75 ohms
Output Impedance OM7-R	75 ohms
Input level	0.1 to 1.7Vpp
Output level	1Vpp or 1.7 Vpp
	Hi gain setting
Bandwidth	>100Hz to 10 Mhz
Electrical	
Power Consumption	< 1 Watt / transmitter or receiver
Power Source stand alone version	External 12V DC power cube
Power Source rack mount version	Incorporated in the RMF30 Rack
Power requirement (TX)	11v Dc to 18v Dc @ 60mA
Power requirement (RX)	11v Dc to 18v Dc @ 180mA
General	
Operating temperature	-10°C to 55°C
Humidity (RH)	10% to 95%
Dimensions Transmitter (HxWxD)	1.4" x .8" x 2.5"
Dimensions Receiver (HxWxD)	2.5" x .8" x 3.7"

Part Numbers

OM7 - T Transmitter
OM7 - R Receiver

18/11/04