ECT299 DUAL VIDEO WITH FOUR DUPLEX CONTACT CLOSURE DATA CHANNELS FM OPTICAL RECEIVER

Video	Data
2	4
→	↔

ECT299 system provides high performance link for receiving of two unidirectional composite video channels along with four bi-directional contact closure data channels over two or four fibers. The system features CCTV professional video quality and high speed contact closure data transfer capability. ECT299 utilizes linear frequency demodulation and very low noise reception technology to assure high quality and stability.

FEATURES

- CCTV Professional Video Quality
- Compatible with NTSC, PAL and SECAM Transmission
- High Speed Contact Closure Data Ports
- Multimode and Singlemode Versions
- Power and Signal Status Indicators

Operating Wavelength	850 nm	1300 nm	1310/1550 nm
Optical Core Diameter	**50µ/62.5µ**		**8/10µ**
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-7 dBm	-14 dBm	-8 dBm
Video & Data Receiver Sensitivity	-31 dBm	-33 dBm	-35 dBm
Video & Data Receiver Sensitivity**	-30 dBm	-32 dBm	-34 dBm
Optical Connectors	ST, SC		FC, ST, SC

** with +/- 2 dBm variation @ -30°C to +85°C; higher power laser sources are available per special request;*
*** for one-fiber configuration with internal WDM*

Video Bandwidth @ 3 dB	7 MHz
Video Output	75 Ohm unbalanced
Video Output Level	NTSC: 1.0 Vp., PAL: 1.3 Vp. (+1/-3 dB)
Signal-to-Noise Ratio	62 dB*
Diff. Gain (-20°C to +70°C)	< 4 %
Diff. Gain (-30°C to +85°C)	< 7 %
Diff. Phase (-20°C to +70°C)	< 4 °
Diff. Phase (-30°C to +85°C)	< 7 °
Field Tilt	< 2 %
Luminance Non-Linearity	< 4 %
Data Interface	TTL or CMOS/TX & Dry Contact/RX
Data Rate	Up to 200 Kb/s
Bit Error Rate	10^{-9}
Power Requirements	11 - 15 VDC @ 400mA
Operating Temperature	-30°C to +85°C (-22°F to +185°F)
Dimensions (w/o connectors)	11.6"(295 mm) x 5.2"(132 mm) x 1.05"(27 mm)

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

ORDERING INFORMATION

299**E**-VR/DX-C**YZ** – 2 x Video RX/cont. closure data TRX card
299**E**-VR/DX-M**YZ** – 2 x Video RX/cont. closure data TRX module
RX – receiver, TRX - transceiver

E = **M** for multimode 850 nm/TX
= **M(13)** for multimode 1300 nm/TX
= **S** for single mode 1310 nm/TX
= **S(15)** for single mode 1550 nm/TX
Y = **2** for single fiber system (1 fiber per channel)
= **4** for dual fiber system (2 fiber per channel)
Z = **ST, SC, FC** for optical connectors

Note: The specifications are subject to change without notice.

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