ECT022D DUAL CHANNEL FM AUDIO AND DATA OPTICAL LINK

FEATURES

* Frequency Modulation (FM) Quality
* Surface Mount Technology
* ST, FC, SC Optical Connector
* Two Channel Audio
* Two Channel TTL, RS-232, RS-422 Data
* Up to 6.5 km/4 mi on 850nm multimode;
* Up to 18 km/11 mi on 1300nm multimode;
* Up to 56 km/35 mi on 1310nm singlemode;
* Up to 90 km/56 mi on 1550nm singlemode;
* No User Adjustments
* Status Monitor LEDs

APPLICATIONS

* Intercom and Audio Broadcasting
* Security and Surveillance
* Campus Media Retrieval/Distance Learning
* Studio Applications

SPECIFICATIONS

Audio Performance

Audio Input Impedance	600 Ohm or 10K, balanced or unbalanced
Audio Input Level	up to +8 dBm or up to +18 dBm
Audio Output Level	up to +8 dBm @ 600 Ohm or 10K balanced or unbalanced up to +18dBm @ 10K, balanced
Frequency Response @ 3dB	20Hz to 20kHz
Distortions	< 1.5%*
Signal to Noise Ratio	> 68dB (weighted)*

Data Performance

Data Input/Output Format	TTL, RS-232, RS-422
Data Rate	DC up to 50 Kb/sec

General Parameters

Operating Temperature	- 20°C to +70°C
Storage Temperature	- 40°C to +85°C
Operating Humidity	0 to 95% non-condensing
Weight	453g (1lb)
Dimensions (module)	156mm (6.15") L, 84mm (3.3") W, 62mm (2.42") H
Power	10 -15 VDC, 0.2 A
Mean Time Between Failures (MTBF)	>100,000Hrs.

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Optical Parameters

Operating Wavelength	850 nm	1300 nm		1310 and/or 1550 nm
Transmitter Optical Source	Laser	Laser		Laser
Fiber Type	50/125µ or 62.5/125µ	50/125µ	62.5/125µ	Single mode 8 - 10 nm
Transmitter Output Power (2 fiber) (with +/- 1 dBm variation)	-6 dBm	-17 dBm	-14 dBm	-6 dBm
Receiver Sensitivity (2 fiber)	-32 dBm	-34 dBm		-35 dBm
Optical Loss Budget (2 fiber)	26 dB	17 dB	20 dB	29 dB
Receiver Sensitivity (1 fiber)	-30 dBm @ 850 nm			-34 dBm
Optical Loss Budget (1 fiber)	24 dB @ 850 nm			28 dB

ORDERING INFORMATION

022D**E-**ADT**F-**M**YZ** – 2 Ch. audio & 2Ch. data transmitter module
022D**E-**ADR**F-**M**YZ** – 2 Ch. audio & 2Ch. data receiver module

E = **M** for multimode 850 nm and 2 fiber option or for 850 nm transmitter and 1 fiber option
= **M(13)** for multimode 1300 nm and 2 fiber option or for 1300 nm transmitter and 1 fiber option
= **S** for single mode receiver, 1310 or 1550 nm transmitter and 2 fiber or 1310 and 1550 nm transmitter and 1 fiber
= **S(15)** for 1550 nm transmitter and 2 fiber
F = **1** for TTL, **2** for RS-232, **3** for RS-422
Y = **1, 2** for number of fibers
Z = **FC** connector
= **ST** connector
= **SC** connector

Note: The specifications are subject to change without notice.

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