

ECT022 DUAL CHANNEL BI-DIRECTIONAL FM AUDIO OPTICAL LINK



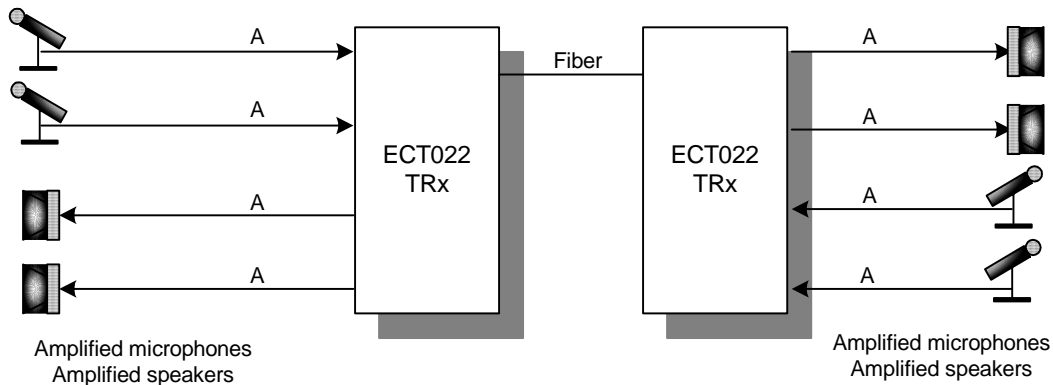
FEATURES

- * Frequency Modulation (FM) Quality
- * Surface Mount Technology
- * Screw Terminal Block (3 pos. Plug) Audio Connectors
- * ST, FC, SC Optical Connector
- * Two Channel Duplex Audio
- * Up to 5 km/3mi on 850nm multimode;
Up to 16 km/10mi on 1300nm multimode;
Up to 80km/50mi on singlemode.
- * No User Adjustments
- * Status Monitor LEDs

APPLICATIONS

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

LAYOUT DIAGRAM



SPECIFICATIONS

Audio Performance

Audio In/Output Impedance	600 Ohm or 10K bal/unbal,
Audio In/Output Level	0dBm or +18dBm
Frequency Response @ 3dB	20Hz to 20kHz
Distortions	< 1.5%
Signal to Noise Ratio	> 65dB (weighted)

General Parameters

Operating Temperature	- 30°C to +74°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 (optional)	
option 1	6.5 - 7 VDC, 0.4A
option 2	10 -15 VDC, 0.3A
Mean Time Between Failures (MTBF)	>100,000Hrs.

Optical Performance

Operating Wavelength	850nm	1300nm		1310 or 1550nm
Transmitter Optical Source	Laser	LED		Laser
Fiber Type	50/125 μ or 62.5/125 μ	50/125 μ	62.5/125 μ	Singlemode
Transmitter Output Power	-6 dBm	-17 dBm	-14 dBm	-7 dBm
Receiver Sensitivity (2 fiber)	-33 dBm	-35 dBm		-35 dBm
Receiver Sensitivity (1 fiber)	-32 dBm	-34 dBm		-34 dBm
Optical Loss Budget (2 fiber)	27 dB	18 dB	21 dB	28 dB
Optical Loss Budget (1 fiber)	26 dB	17 dB	20 dB	27 dB

ORDERING INFORMATION

022E-AX-M(P)YZ

- E** = **M** for multimode
- = **M(13)** for multimode 1300nm only
- = **S** for singlemode
- = **S(15)** for singlemode 1550nm only
- P** = **6.5, 12** for power option
- Y** = **1** for **Single Fiber**, **2** for Dual Fiber
- Z** = **FC** connector
- = **ST** connector
- = **SC** connector



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