

ECT020

DUAL CHANNEL FM AUDIO OPTICAL LINK



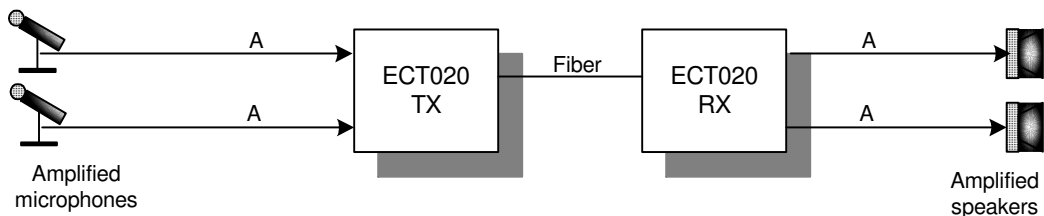
FEATURES

- * Frequency Modulation (FM) Quality
- * Surface Mount Technology
- * Screw Terminal Block (3 pos. Plug) Audio Connectors
- * ST, FC, SC Optical Connector
- * 2 Channels Audio
- * 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

LAYOUT DIAGRAM



ECT100 SERIES

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
Frequency Response @ 3dB	up to +18dBm @ 10K, balanced 20Hz to 20kHz
Distortions	< 1.5%*
Signal to Noise Ratio	> 68dB (weighted)*

* measured with 1km / 62.5μ cable and audio level 0 dBm @ 600 Ohm.

General Parameters

Operating Temperature	- 30°C to +70°C
Storage Temperature	- 40°C to +85°C
Operating Humidity	0 to 95% non-condensing
Weight	340g (12oz)
Dimensions	156mm (6.15") L, 84mm (3.3") W, 62mm (2.42") H
Power (optional)	
option 1	6 - 7 VDC, 0.2 A
option 2	10 - 15 VDC, 0.1 A
Mean Time Between Failures (MTBF)	>100,000Hrs.

Optical Performance

Operating Wavelength	850nm	1300nm		1310 or 1550nm
Transmitter Optical Source	VCSEL	LED		Laser
Fiber Type	50/125μ or 62.5/125μ	50/125μ	62.5/125μ	Singlemode
Transmitter Output Power (with +/- 1 dBm variation)	-6 dBm	-17 dBm	-14 dBm	-6 dBm
Receiver Sensitivity	-35 dBm	-37 dBm		-37 dBm
Optical Loss Budget	29 dB	20 dB	23 dB	31 dB

ORDERING INFORMATION

020E-AU-M(P)1Z

- E** = **M** for multimode
- = **M(13)** for multimode 1300nm
- = **S** for single mode receiver or 1310nm transmitter
- = **SP** for high power (0 dBm) 1310nm transmitter option
- = **S(15)** for single mode 1550nm transmitter
- = **S(15)P** for high power (0 dBm) 1550nm transmitter option
- U** = **T** for transmitter, **R** for receiver
- P** = **12** for 10-15VDC power option
- Z** = **FC, ST, SC** for optical connector

Note: The specifications are subject to change without notice.



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