FG- OT-1550-RFP

1550nm Direct Modulated CATV over Fiber
RF Transmitter with AGC

FG-100 RFP 1550nm - 2-16mW fiber optic transmitter for Television RF (Radio Frequencies) from 45-870 MHz Operates on 1550 C-Band wavelength for compatibility with EDFA systems. Directly converts any incoming RF signal within this band to optical RF. Transports all channels and programs over one fiber. Can be used for point to point or combined with PLC couplers and fiber optic splitters for point to multipoint applications. Outputs Industry standard RFoG (RF over Glass) signals that can be accepted by most fiber optic RF receivers from other manufacturers. Easy to read front panel LCD provides information and alarm data and simplifies configuration. This system features a highly linear DFB laser with automatic adjustment circuitry with Automatic Gain Control. For added reliability, a second internal Power Supply Unit is available as an option.

FEATURES

- 2-16 mW Optical Power Output from a C-Band laser compatible with EDFA amps
- Can be optically amplified to high power levels for fan type distribution
- Transports entire 45-870 MHz band even with full channel lineups
- Create high security "Fiber Breaks" to eliminate coax signal return path
- Automatic Gain Control (AGC) manages RF level with no adjustment needed
- Compatible with all CATV series optical receiver systems

SPECIFICATIONS

Technical Parameters	
Description	Value
Input	1 x Type -F Connector - 75Ω
Optical Wavelength	1550 nm
Line Width	< 1 MHz FWHM
Extinction Radio	>20 dB XP

Equivalent Noise Intensity	< -160 dB/ Hz
Output Power	TX- 2mW 1550 +2dBm output RF Transmitter TX- 4mW 1550 +2dBm output RF Transmitter TX- 8mW 1550 +2dBm output RF Transmitter TX- 16mW 1550 +2dBm output RF Transmitter
Return Loss	>55dB
Optical Connector	SC, ST, FC/PC
RF Power Level	11-29 dBmV AGC Managed
SBC Restrain	>17 dBm
CNR	>50 dB @ 10km fiber length
CTB	< -63dB
Dimensions	19 x 10 x1.75 inch
Weight	2.5 Kg

Point To Multi Point CATV RF 45-1000mhz over fiber distribution using OPTICAL SPLITTER