



...communicating at the speed of light

FT-HHRX-870-1-* FTTH Mini Optical Node

Features:

- Wavelength: 1200 - 1600nm
- 54-870 MHz Forward Path Receiver
- 5-42 MHz Reverse Path Transmitter
- Wide optical input range -8dBm to +2dBm
- pHEMT GaAs FET Technology
- Forward and reverse RF test points
- Local or remote power supply
- Die-cast aluminum housing
- Excellent heat dissipation



Description:

The FT-HHRX-870-1 series is a state of the art fiber node designed for FTTH applications. With a receive frequency range of 54 to 870 MHz, these units offer flexibility in operation and maintenance. GaAs FET technology provides low distortion and a flexible input level. Featuring low power consumption and surge protected design the FT-HHRX-870-1 series is perfect for commercial and residential applications. This series features an integrated return path transmitter with a reverse frequency range of 5-42 MHz. The automatic gain control (AGC) function has been specially designed to simplify installation and network maintenance by compensating for changes optical input power. The unit provides a stable RF output level when fed with with input levels between -8dBm and +2dBm.

Specifications:

Forward Optical

Input Optical Power Range	-8 to +2 dBm
Equivalent Input Noise Current	<4pA/√Hz
Working Wavelength	1200 - 1600 nm
Optical Connector	Specify SC/APC or FC/APC

Forward RF

Bandwidth	54-870 MHz
Flatness	+/-0.75 dB
Impedance	75 Ohms
RF Output Level	24 +/-2dBmV @ -6 dbmW
RF Return Loss	≥18 dB
RF Test Point	-20 dB +/-0.75 dB
RF Output Stability	+/-0.5 dB
Carrier to Noise Ratio (CNR)	>46 dBc
Composite Triple Beat (CTB)	>70 dBc
Composite Second Order (CSO)	>65 dBc

Reverse Optical

RF Test Point	-20dB +/-0.75 Db
Laser Type	FP
Optical Output Power	≥0 dBmW
Optical Wavelength	1310nm
Carrier to Noise Ratio (CNR)	>45 dBc
Composite Triple Beat (CTB)	>45 dBc
Composite Second Order (CSO)	>45 dBc

Reverse RF

Passband	5-42 MHz
Flatness	+/-0.75 dB
Impedance	75 Ohms
RF Return Loss	-16 dB
RF Input Level	+20 dBmV

General

Operating Temperature	-40°F to +140°F
Power Supply	12VDC, 300mA
Power Consumption	4 Watts
Surge Protection	6 KV
Dimensions	5"W x 4.5"H x 1.25"D

Ordering Information:

FT-HHRX-870-1-SCAPC	Fiber optic receiver with SC/APC fiber input
FT-HHRX-870-1-FCAPC	Fiber optic receiver with FC/APC fiber input

Contents Include:

- 1 Fiber optic node
- 1 Power supply