



WISI GPON

ONT G-LR01W Optical Receiver with PON/WDM filter



MAIN FEATURES:

- 1 GHz operating bandwidth
- Low optical input level range of -18... + 2dBm
- High RF output level of up to 76dBμV (@ -15dBm optical signal)
- Very low power consumption <1.0W

DESCRIPTION

WISI G-LR01W is a Mini CATV Optical Receiver with built-in PON/WDM filter, designed for applications in PON networks based on RF Overlay technology.

The receiver internally separates the 1550nm wavelength from the PON network connected at the SC/APC optical port and converts it to RF, covering the entire 1GHz CATV band. The remaining wavelengths of the PON network are extracted through a second SC/PC optical port and make them available for the connection of external ONTs.

TECHNICAL SPECIFICATIONS

Optical specifications

- COM Port SC/APC: 1550 / 1490 / 1310nm
- PON Port SC/PC: 1490 / 1310nm
- Optical RF power range (1550nm) : -18 ...+2dBm
- AGC Range: -12 ... -2dBm
- Return loss: ≥ 45 dB

General data

- Temperature range: -25 ... 65°C
- Humidity: 10% - 95% (non-condensing)
- Power Supply: 5VDC/0.5Amp
- Power consumption: ≤ 1.0 W
- Dimensions: 100mm x 85mm x 25mm
- Weight: 184g

RF Specifications

- Frequency range: 47 – 1003MHz
- Flatness: ± 1 dB (47 -1003MHz at 25°C)
- Slope: 0..2dB (47 -1003MHz at 25°C)
- Temperature Stability: ± 1.5 dB (-25...+65°C)
- Output level: 75dBμV @ -15dBm OMI 4% (862Mhz)
- Impedance: 75Ohm
- Return loss: > 12 dB
- MER:
 - ≥ 30 dB (-15...-5dBm)
 - ≥ 24 dB (-20 ...-16dBm)
- RF Connector: F(female)

Status LED

- OPT
 - Green $\Rightarrow$ Optical Power > -16 dBm
 - Red $\Rightarrow$ Optical power < -16 dBm