

## Description

The MUL-MN-V-TR-HP-AC optical receiver is a bi-directional receiver specifically developed for HFC broadband networks. It accommodates the FTTH (Fiber to the Home) network topology, while addressing the issues of CATV bidirectional return channel noise and the high reliability network security transmission requirements of modern CATV networks.



## Key Features

- Uses an advanced optical AGC circuit design, with an optical AGC control range of: +2dBm ~ -9/-8/-7/-6/-5/-4dBm adjustable
- Features the high quality, high reliability DFB laser
- Forward operating frequency up to 1GHz, RF amplifier uses a high performance low power consumption GaAs amplifier, maximum output level up to 52dBmV
- EQ and ATT both use an advanced electric control circuit for setting the operating parameters, making the setup easier and more accurate
- Internal Power Supply

Part Number: MUL-MN-V-TR-HP-AC

HIGH POWER OPTICAL MICRO-NODE

**Specifications**

Optical Parameter	Specification
<b>Forward Optical Receiver</b>	
Optical Receiving Power (dBm)	-9 ~ +2
Optical AGC Range (dBm)	+2 ~ -9 / -8 / -7 / -6 / -5 / -4 (adjustable)
Optical Return Loss (dB)	> 45
Optical Receiving Wavelength (nm)	1260 ~ 1620
Optical Connector Type	SC/APC
Fiber Type	Single Mode
<b>Link Performance</b>	
C/N (dB)	≥ 51
C/CTB (dB)	≥ 60
C/CSO (dB)	≥ 60
<b>RF Parameters</b>	
Frequency Range (MHz)	54 ~ 1000
Flatness in Band (dB)	±0.75
Test Port (dB)	-20
Rated Output Level (dBmV)	≥ 108 dBμV (≥ +48 dBmV)
Max Output Level (dBmV)	+49 (≥ 109 dBμV) (when input optical power -9 ~ +2dBm)
	+52 (≥ 112 dBμV) (when input optical power -7 ~ +2dBm)
Output Return Loss (dB)	≥ 16
Output Impedance (Ohm)	75
Electrical Control EQ / ATTRange (dB)	0 ~ 15 / 0 ~ 15
Return Optical Parameter	Specification
<b>Optical Parameters</b>	
Optical Transmit Wavelength (nm)	1310 ±10
Laser Type	DFB
Optical Output Power (mW)	1 ±0.5
Optical Connector Type	SC/APC
<b>RF Parameters</b>	
Frequency Range (MHz)	5 ~ 42
Flatness in Band (dB)	±1
Input Level (dBmV)	+15 ~ +25 (75 ~ 85 dBμV)
Output Impedance (Ohm)	75
NPR Dynamic Range (dB)	≥ 15 (NPR ≥ 30 dB) Using DFB Laser
<b>General Statistics</b>	
Power Voltage (V)	AC (150 - 265VAC, 50 / 60Hz)
Operating / Storage Temperature	-30 ~ +60 (-22 ~ +140°F) / -40 ~ +65 (-40 ~ +150°F)
Relative Humidity	Max 95% no condensation
Consumption (W)	≤ 9
Dimensions (L x W x H)	190 x 110 x 52 (7.5" x 4.3" x 2")

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