

MIC-OTR-8603

Field Optical Node



Overview

MIC-OTR-8603 Field Optical node is produced based on several years' CATV advanced technology and rich experience. It adopts foreign high index module, and has network management. Advanced technology, high index and high performance to price ratio make it is suitable for large or middle sized CATV city network.

Features

- Two-way optical receiver module, can be automatically or manually switched. The switching powersupply's hot backup and automatic switch can improve dependability of network.
- Can equip 2 return transmission modules.
- Four ports can all output high level. Each path built-in plug-in fixed equalizer, fixed plug-in attenuator, plug-in duplex filter and test port.
- Built-in perfect status monitoring circuit and equipped network management interface compatible with HMS standard.
- Strict anti-thunder system.
- Suitable for large or middle-sized city network, can substitute imported famous brand machine.

Specifications

Items	Units	Specifications
Optical		
Wavelength	nm	1290~1650
Input power	dBm	-6~+3
Optical return loss	dB	≥50
Equivalent Input Noise Current	$PA/\sqrt{Hz}$	≤8
RF		
Output Level	dBμV	114 (max) [note] 1
Frequency Range	MHz	47~862[note] 2
Frequency Division	MHz	65/87 (others are specified by the users)
Impedance	Ω	75
In-band Flatness	dB	≤±0.75
Return Loss	dB	≥16dB (45~550MHz) ≥14dB (550~862MHz)
Performance		
CNR	dB	≥51[note] 3
CSO	dB	≥62[note] 3
CTB	dB	≥67[note] 3
Power		
P	V	AC35~90 or AC110~265
Power consumption max.	W	125
Physical		
Optical connector type	--	FC/APC or SC/APC
Operating temperature	℃	-40~+55
Operating humidity	%	95% non-condensing

[Note]1 There are optional five specifications of output level: 106dBμV、110dBμV、114dBμV

[Note]2 The frequency range is determined by the frequency division of forward and reverse channels.

[Note]3 CNR , CTB and CSO should be tested under the following conditions: form the test link with standard optical transmitter and 10km optical fiber; configure 59 PAL-D analogue video channel signals in the frequency range of 550MHz; transmit digital modulated signal in the frequency range of 550MHz~862MHz; the level of digital modulated signal (within 8Mhz bandwidth) is 10dB lower than carrier level of analogue signal; when the input optical power of optical receiver is -1dB, the output slope is 12dB and the output level is 110dBuV (the gallium arsenide amplifier module)



Reverse Optical Transmission Module Specifications

Items	Units	Specifications							
Laser Type	--	FP			DFB				
Output Optical Power	mW	1	2	3	1	2	3	4	
NPR Dynamic Range	dB	≥10(NPR≥30dB)			≥15(NPR≥30dB)				
Flatness	dB	≤±0.75							
Frequency Range	MHz	5～65[<i>note</i>] 2							
Output Optical Wavelength	nm	1310±10							
Laser Drive Level	dBμV	80±5							
RF Return Loss	dB	≥16							

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