

OPTICAL RECEIVER

Features

- Working at 1310&1550nm dual windows
- 750/862MHz bandwidth
- 2 way or 4 way RF outputs and low distortion
- High quality switching power supply
- FP/DFB laser return path transmitting unit optional
- LED display optical power status: While there is optical power($\geq -5\text{dBm}$), the indicator is green; red for no optical power($< -5\text{dBm}$)



Applications

- CATV network

Specifications

Parameter		Specification	Unit
Optical Performance			
Operating Wavelength Range		1100~1600	nm
Input Optical Power	Typ	-4~+2	dBm
Return Loss	Min	45	dB
Photodiode Sensitivity	Min	0.85	mA/mW
Fiber Connector		SC/APC or FC/APC	
Forward Path Characteristics			
Frequency Range		47/87~750/862	MHz
RF Output Level		98(-1dBm input), 2 or 4 way outputs	dB μ V
Band Flatness	Typ	± 0.75	dB
Return Loss	Min	16(550MHz), 14(750/862MHz)	dB
CNR ¹	Min	51	dB
C/CSO ¹	Min	60	dB
C/CTB ¹	Min	65	dB
Return Path Characteristics			
Wavelength		1310	nm
Frequency Range		5~200	MHz
Optical Power	Typ	1, 2	mW
RF Driving Level	Typ	95	dB μ V
RF Input Return Loss	Min	14	dB
Flatness	Typ	± 1.0	dB
CNR ²	Min	50(DFB laser), 45(FP laser)	dB
C/CSO ²	Min	51(DFB laser), 45(FP laser)	dB
C/CTB ²	Min	55(DFB laser), 45(FP laser)	dB
Fiber Connector		SC/APC or FC/APC	
Environmental Conditions & Others			
Operating Temperature Range		-40~+60	$^{\circ}\text{C}$
Power Voltage		220/60	VAC
Power Consumption	Max	26(2 way outputs), 32(4 way outputs)	W

1. Tested with OT31, 10km fiber, optical attenuator and OMOR-2/4
2. (1) 4 signals: 19,25,31,37MHz
(2) 2 signals: 13,19MHz
(3) Using a standard optical receiver in the test, link budget is 10dB.

Order Information

Host

OMOR – A – B – C – D – E

A	Number of RF Output	2: 2 way 4: 4 way
B	RF Bandwidth	7: 750MHz 8: 862MHz
C	Power Supply	A: 60VAC B: 220VAC
D	Fiber Connector	F: FC/APC S: SC/APC
E	RF Connector Type	A: Metric type B: British type

Accessories Optional

a. Return Path Transmitting Unit

PROD – A – B

A	Optical Power	1: 1mW 2: 2mW
B	Laser Type	P: FP B: DFB

b. Plug-in Forward Equalizer

FE – A – B

A	EQ	0: 0dB 2: 2dB
B	Bandwidth	7: 750MHz 8: 862MHz

c. Plug-in Pad (attenuator)

FA – A

A	Attenuation	0: 0dB 2: 2dB
---	-------------	---------------------

d. Plug-in Diplex Filter

DPX – A

A	Split Frequency	30/47: 30MHz/47MHz 65/87: 65MHz/87MHz
---	-----------------	--