Fiber Optical RF Unit (for U)

Optical CATV Return Path Receiver



The ORR-02-3C series provides CATV distribution head-end operators with an extensive array of features that offer a low-cost solution to increase system performance. The ORR-02-3C series is a compact indoor CMTS receive delivering multiplexed CMTS signals in an HFC (hybrid fiber coax) or PON (passive optical network) broadband CATV environment. Additionally, the ORR-02-3C series ability to operate over a wide optical input range of -23 to -10dBm allows for a variety of system designs without degrading performance. The ORR-02-3C series exhibits excellent distortion performance with values above standards over the entire bandwidth and temperature specifications.

Features

- ■1100nm ~ 1650nm wavelength
- Perfect for CMTS applications.
- ■Wide Optical Input Window(-10dBm to -23dBm) @ 1310/1550nm
- ■Wide Gain Control Range
- Excellent distortion characteristics for high linearity
- ■Low noise and low power consumption
- Compact, Very Cost Effective
- LED display to monitor current operating status
- ■RF test port in the front panel for input RF signal monitoring
- Front panel buttons for convenient control/monitoring
- ■RoHS Compliant Products

Applications

- Receiver module for optical CATV network in HFC and FTTx nodes
- Video overlay in passive optical networks (PON)







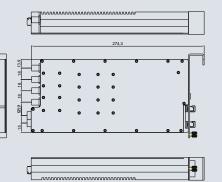
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Mechanical Dimension

(The dimensions are in millimeters)

ORR-02-3C(36 X 282 X 133mm)





Electrical / Optical characteristics

Specifications	Unit	
-23 ~ -10	dBm	
1100 ~ 1650	nm	
≥ 0.9	dB	
< -40	dB	
0 ~ +50	°C	
12±2	V _{DC}	
< 10	W	
	Specifications -23 ~ -10 1100 ~ 1650 ≥ 0.9 < -40 0 ~ +50 12±2	

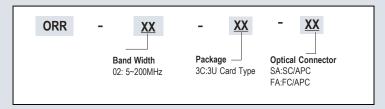
^{*} Optical connector type : SC/APC connector

RF Characteristics

Parameter	Specifications	Unit
Received Input Number	4 Port	
Bandwidth	5 ~ 200	MHz
Frequency Response	<1	dBp-p
Output RF Signal level*	35	dBmV/ch
Output Impedance	75	Ohm
Output Return Loss	< -16	dB
RF Test Point	-21 ~ -19	dB
Operation Gain Control Range	-18~ +9	dB
IMD3* @ 35dBmv/ch RF output	≥ 60	dBc

^{* 2-}Tone channel, Optic Loss 21dBo, ONU 20dBmV input, RF Gain Control +4dB

Ordering Information



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