Specification

of
Receiver Module for Optical Node
RXM-xxxxUM Series

Universal Microelectronics
Photonics Division
Catalog 2008~ 2009

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Receiver module for Optical Node

Features

- Compact module design
- Input power -6~3 dBm
- Wavelength 1310nm and 1550nm
- RF bandwidth 54~ 870MHz
- Flatness +/ - 0.5dB
- LED display for power and optical in

Applications

- Cable TV
- Design for Optical Node

Product Characteristics

Performance

Items	Unit	Test Conditions	Specifications	Note
Optical Parameters				
Wavelength	nm	--	1310/1550±10	@25℃
Input Power	dBm	--	-6 to +3	
Fiber Length	cm	--	100±5	
Optical Return Loss	dB	@1310nm	45	
Optical Return Loss	dB	@1550nm	40	
Input Power Test Point	--	--	1V/mW	
Optical Input Port Number	--	--	1	
Fiber Type	--	--	Single Mode	
Connector	--	--	SC/APC	
RF Parameters				
Bandwidth	MHz	--	54 - 870	
RF Output Port Number	--	--	1	
RF Output Level	dBmV	@-1 dBm Optical Input, OMI=3.4%	>18	1
Return Loss	dB	75 Ohm Impedance	>10	
Flatness	dB	--	+/- 0.5	
Slope	dB	--	+/- 0.5	
RF Output Stability	dB	--	+/- 2.5	2
RF Connector	--	--	F-type, Female	

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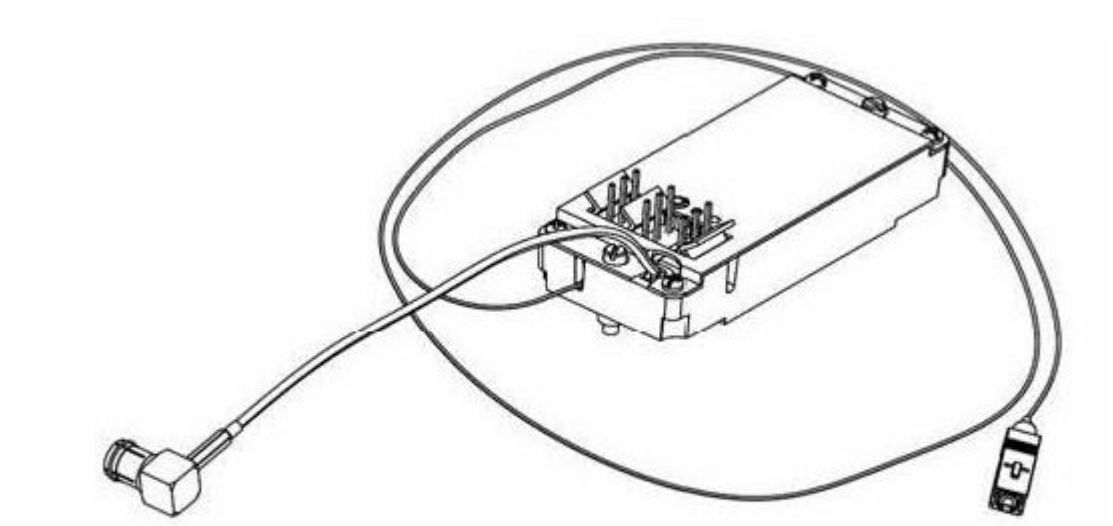
Indicators Interface				
Power LED	--	DC Voltage Display, Green Light		
Optical IN LED	--	Optical Input in Normal Range, Green Light (Light= Optical Input Power＞-6dBm Dark= Optical Input Power＜-7dBm)		
Physical / Environmental				
Operating Temperature	℃	--	-40 to +65	
Input Power	VDC	--	+24	
Power Consumption	Watts	--	<5	
Dimensions	mm	--	115.0x48.5x22.0	

Notes:

1. Minimum RF output level at –1 dBm optical input OMI=3.4% and 0 dB attenuator setting.
2. RF output stability is over operating temperature range.
3. All performance specifications are typical and not including transmitter characteristics

Mechanical outline



1.Housing:115.0±1L×48.5±1W×22.0±1H
2.Coaxial Cable Length outside the housing:291.0±12.7
3.Fiber Length:1000±50
Unit:mm

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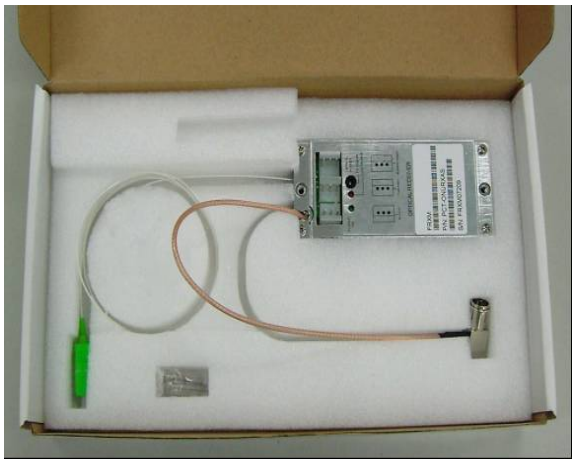
Packing List

Item	Name	Quantity--	Note
1	PD-FRXM00001	1	Dimension
2	Test Report	1	271Lx161Wx51H(mm)
3	Mounting Screw	2	

Packing Picture



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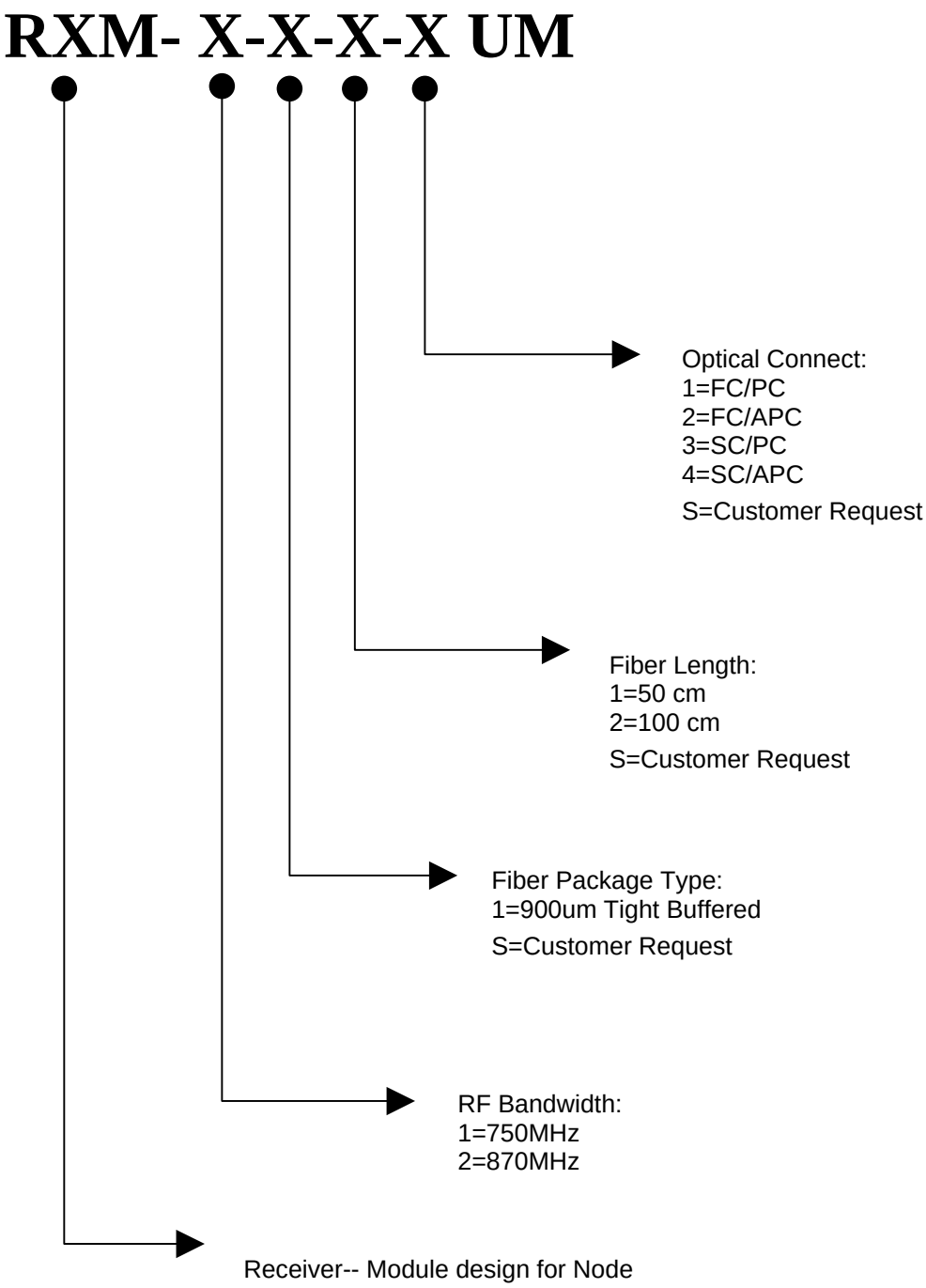
Ordering Information



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