



***Specification***  
of  
**Return Transmitter Module for Optical Node  
RTX-MxxxxxxUM Series**



**Universal Microelectronics  
Photonics Division  
Catalog 2008~ 2009**



**Return Transmitter module for Optical Node**

**Features**

- Compact module design
- High performance FP or DFB laser inside
- 1310nm or CWDM channel laser
- build in isolator
- wide bandwidth 5~300MHz
- Flatness less than 1dB

**Applications**

- Cable TV
- Design for Optical Node

**Product Characteristics**

**Performance**

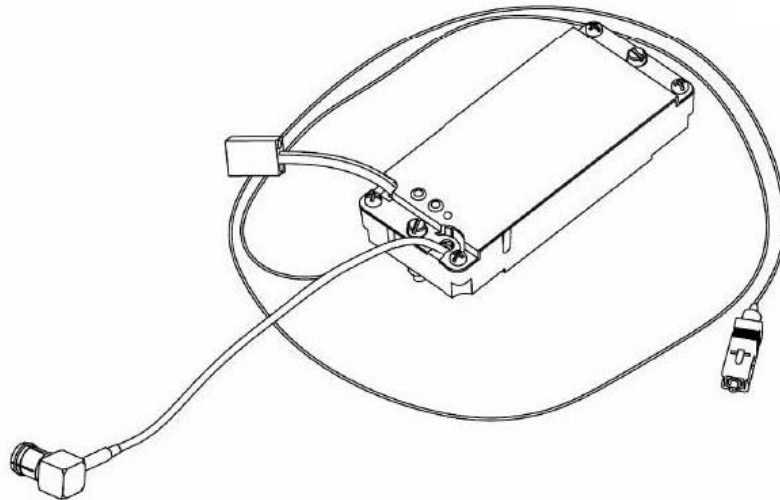
Item	Unit	Condition	Specification	Note
Optical Parameters				
Laser Type	--	--	FP DFB CWDM	
Center Wavelength	nm	--	FP-1310+/-20 DFB-1310+/-10 CWDM-ITU +/-7	@25°C
Isolator Type	--	--	With Single Stage Isolator Without	
Output Power	mW	--	1 / 2 / Customer Request	
Fiber Length	cm	--	95 +/-5	
Fiber Type	--	--	Single Mode 900um Tight Buffered	
Connector	--	--	FC/PC FC/APC SC/PC SC/APC Customer Request	
Optical Isolation	dB	--	> 30(With Isolator)	



RF Parameters				
Bandwidth	MHz	--	5 - 300	
RF Input Level	dBmV	--	36	
Return Loss	dB	75 Ohm Impedance	>9	
Flatness	dB	--	<1	
Slope	dB	--	0/-1	
RF Performances				
CNR	dB	Optical loss = 10dB; 13MHz and 19MHz two tone test	> 52	
CSO	dB		> 51	
CTB	dB		> 55	
Indicators Interface				
Power LED		DC Voltage display, Green Light		
Optical Power LED		LED light as optical power > -3dBm		
Physical / Environmental				
Operating Temperature	°C	--	-40~+65	
Input Power	VDC	--	+24	
Power Consumption	Watts	-40°C~+65°C	<4.3	
Dimensions	mm	--	115 x 48.5 x 22	



### Mechanical outline



Housing : 115.0Lx48.5Wx22.0H  
Coaxial Cable Length outside the housing : 266.5+/-12.7mm

### Packing List

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

### Packing Picture





### Ordering Information

# RTX-M-X-X-X-X-X-X UM

