

## Custom made DWDM rack mount and card format filters

### 1. Features

- ◆ Low Insertion Loss
- ◆ High Isolation
- ◆ Low PDL
- ◆ Compact Design
- ◆ Good Channel-to-channel Uniformity
- ◆ Wide Operating Wavelength:  
1528nm~1564nm DWDM C Band 100GHz grid
- ◆ Wide Operating Temperature:  
-5°C ~ 75°C
- ◆ High Reliability and Stability



## **2. Applications**

- ◆ DWDM System
- ◆ PON Networks
- ◆ CATV Links
- ◆ Long haul optical transmission networks
- ◆ METRO Ethernet

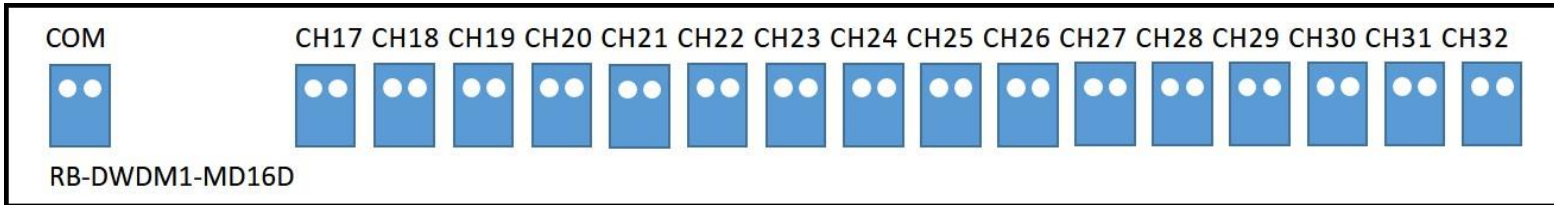
## **3. Compliance**

- ◆ Telcordia GR-1209-CORE-2001
- ◆ Telcordia GR-1221-CORE-1999
- ◆ ITU-T G.694.1
- ◆ RoHS

#### 4. Specifications

Parameters		1:16 Mux/Demux
Center Wavelength (nm)		1528.77~1563.86
Passband (nm)		ITU±0.22
Operating Wavelength (nm)		ITU 100GHz grid (on request 50GHz or 200GHz grid available)
Fiber Type		SMF-28e with 0.9mm Loose tube
IL (dB)		≤3.8
Isolation (dB)	Adjacent Channel	≥30
	Non-Adjacent Channel	≥50
Ripple (dB)		≤0.5
PDL (dB)		≤0.2
PMD (ps)		≤0.1
RL (dB)		≥45
Directivity (dB)		≥50
Maximum Optical Power (mw)		500
Fiber length(m)		1.0±0.05
Operating Temperature (°C)		-5~75
Storage Temperature (°C)		-40~85
Package Dimension (mm)		19" 1U Rack-Mount
Connector Type		LC/UPC or LC/APC

## 5. Front panel look (rack mounting 1RU)



## 6. Ordering Information

### Ordering information on DWDM passive systems (general Part Number system)

RB-DWDMX-: 1,2,4,5	MDX: 4, 8, 16, 32, 40	<b>X</b>	<b>-MX</b>	<b>-XX</b>	<b>-UX</b>	<b>-LCX</b>
1: 19" rack mountable 1U	4: 4 channels	S: simplex	1: 1% monitor port	17~61 ITU 100GHZ grid starting channel	U1: expansion port all upper lambdas	LCU: LC/UPC connector
2: 19" rack mountable 2U	8: 8 channels	D: duplex	3: 3% monitor port		U2: expansion port all lower lambdas	LCA: LC/APC connector
4: card	16: 16 channels					
5: LGX box	32: 32 channels					
8: no box	40: 40 channels					

(bold marked Xs are replaced with appropriate values from the table; missing indents mean the option is not selected)

#### Examples for DWDM custom filters:

RB-DWDM1-MD4D-17-U1-LCU: 19" 1U, mux/demux, 4 channels duplex ch17 to ch20 100GHz, no monitor, expansion port for >ch20, LC/UPC connectors

RB-DWDM5-MD8D-M1-27-LCA: LGX box, mux/demux, 8 channels duplex ch27 to ch34, 1% monitor port, no expansion, LC/APC connectors

RB-DWDM1-MD32D-20-LCU: 19" 1U, mux/demux, 32 channels duplex ch20 to ch51, no monitor, no expansion port, LC/UPC connectors

RB-DWDM4-MD8S-33-LCU: card format, simplex single strand mux/demux, 8 channels, ch33 to ch40, no monitor or expansion, LC/UPC conn.