

Athermal AWG DWDM rack mount and no box format filters

1. Features

- ◆ Athermal AWG filter design requires no power
- ◆ High Isolation
- ◆ Low PDL
- ◆ Compact Design, high density 40/48/80 channels
- ◆ Good Channel Uniformity
- ◆ Wide Operating Wavelength:
1528nm~1564nm DWDM C Band 100GHz grid
- ◆ Wide Operating Temperature:
-5°C ~ 70°C
- ◆ High Reliability and Stability



2. Applications

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

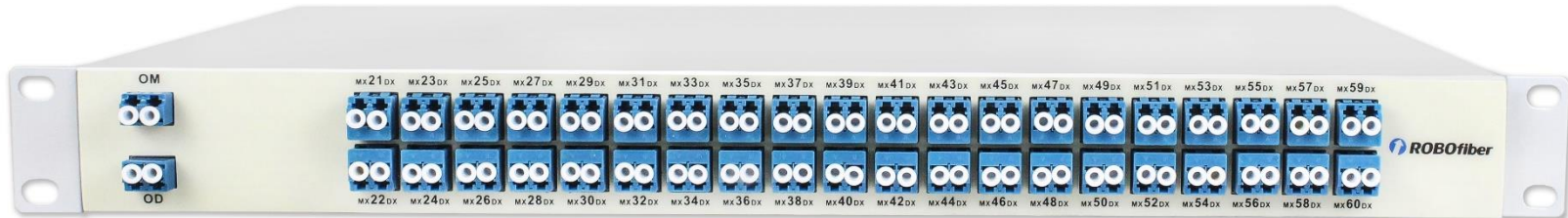
3. Compliance

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

4. Specifications

Parameters		1:40 Mux/Demux
Center Wavelength (nm)		1528.77~1563.86
Passband (nm)		ITU±0.22
Operating Wavelength (nm)		ITU 100GHz grid
Fiber Type		SMF-28e with 0.9mm Loose tube
IL (dB)		≤5.5
Isolation (dB)	Adjacent Channel	≥25
	Non-Adjacent Channel	≥30
Ripple (dB)		≤0.75
PDL (dB)		≤0.5
PMD (ps)		≤0.5
RL (dB)		≥45
Directivity (dB)		≥50
Maximum Optical Power (mw)		300
Fiber length(m)		1.0±0.05
Operating Temperature (°C)		-5~70
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)

RBX-DWDM-	AAWGXX	-MX	-XX	-LCX
1: simplex	40: 40 channels	1: 1% monitor port	1~80 ITU 100GHz grid starting channel	LCU: LC/UPC connector
2: duplex	48: 48 channels	3: 3% monitor port		LCA: LC/APC connector
	80: 80 channels			
5: LGX box				
8: no box				

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

Examples for DWDM custom filters:

RB1-DWDM-AAWG40-21-M1-LCU: 19" 1U, mux/demux, 40 channels simplex ch21 to ch60 100GHz, 1% monitor port, LC/UPC connectors

RB2-DWDM-AAWG48-15-LCA: 19" 1U, mux/demux, 48 channels duplex ch15 to ch62, no monitor, LC/APC connectors

RB18-DWDM-AAWG-21-LCU: no box, mux/demux, 40 channels simplex ch21 to ch60, no monitor, LC/UPC connectors

By default, no connector specification means LC/UPC connectors are being used. No channel numbers mean 40 channel configuration is default.