

# 1X2 100G DWDM Device

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## 1、Description

1x2 100G DWDM device is based on the thin film filter technology, which can let two or more different optical wavelength transmit respective signal in one optical fiber, or separate the multiplex signals, the central wavelength space is 100GHz.

## 2、Features

- High Channel Isolation, low Insertion Loss
- Epoxy-free on Optical Path
- High Stability and reliability
- Material meet RoHS
- Meet GR 1209,GR 1221 requirement

## 3、Specification

Parameter	Min	Typical	Max
Working Wavelength Range(nm)	1500~1570		
Channel Wavelength (nm)	ITU Standard		
Passband Width(nm)	±0.11		
Channel Spacing(nm)	100G		
Pass Channel Insertion Loss (dB)			0.8
Reflection Channel Loss (dB)			0.4
Ripple(dB)			0.3
Adjacent Pass Channel Isolation(dB)	30		
Non-adjacent Pass Channel Isolation(dB)	45		
Isolation of Pass Channel @ Reflection Port(dB)	15		
Directivity(dB)	45		
Return Loss(dB)	45		

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Polarization Dependent Loss (dB)			0.1
Polarization Mode Dispersion(ps)			0.1
Maximum Optical Power (mW)	300		
Operating Temperature Range (°C)	-5~+70		
Storage Temperature Range(°C)	-40~85		
Optical fiber type	Corning SMF 28e+ or equal(customized)		
Optical fiber length(m)	≥1.0(customized)		
Package dimension (mm)	All glass for bare fiber type Ø4.0x26 Steel tube for loose tube type Ø5.5x39		

### 4、Application

- Metro Networks
- Optical Add/Drop Multiplexing
- Expanding Existing DWDM Systems
- Telecommunications Networks