

3Port DWDM

3port Dense Wavelength Division Multiplexer

Description

Three-port DWDM device is mainly used in passive wavelength division multiplexing module. It is a kind of wavelength division multiplexing technology based on TFF (thin film filter). It has a variety of package sizes and wavelength options. It consists of three ports: COM, Pass and Reflect. Compared with CWDM, DWDM has 100 GHz, 200 GHz channel spacing, which greatly increases the number of working wavelength, thus greatly increases the signal transmission speed and communication capacity. It is suitable for long-distance, large-capacity trunk network, or ultra-large capacity MAN core nodes, and is widely used in telecommunications, radio and television, 5G and other fields.



Features

- Low insertion loss, low polarization loss
- High isolation
- Working Wavelength Width
- Wide operating temperature
- High reliability and stability
- Small package size, compact structure and space saving

Application

- WDM System
- PON System
- Broadcast Cable Television Network

Specification

Items	Unit	3Port DWDM
Operating wavelength	nm	1500~1600nm
Channel spacing	GHz	100G/200G
Transmission band	nm	±0.12nm/±0.25nm
Transmission band insertion loss	dB	≤0.8
Reflection band insertion loss	dB	≤0.4
Transmission Adjacent Isolation	dB	≥28
Transmission Non-adjacent isolation	dB	≥45
Reflection Isolation	dB	≥15
Return loss	dB	≥45
Directivity	dB	≥45
Ripple	dB	≤0.3
Package dimension	mm	Φ4.0xL30mm; MINI: Φ3.2xL30mm、Φ3.0xL30mm
Operating temperature	°C	-40~+85