

Single Channel 100Ghz&200Ghz DWDM ITU Component

Description

Single Channel 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 polarization dependent loss
- Low insertion loss
- High channel isolation, completely passive
- Exceptional reliability and stability

Application:

- Metro WDM systems
- Access Networks, Long haul WDM systems
- Enterprise Network

Ordering information

Package	Connector Type	U/A	-Channel Plan	-Fiber Type	-Fiber Length	100G-200G
S: Steel	0: No connector	U: UPC	C19:	25: 250um Fiber	005: 0.5+/-0.1m	200G:200GHZ
G:Glass	1: LC	A: APC	C21	90: 900um Fiber	01: 1.0+/-0.1m	100G:100Ghz
	2: SC		C23		others	
	3: FC		others			
	4: Others					

Product specification

Item	Unit	Parameters	
Channel spacing	GHz	200	100
Wavelength range		C- or L-band ITU channels 186.6 to 196.1 THz	
Passband	GHz	$\geq \pm 33$	$\geq \pm 12.5$ GHz
Transmission passband ripple	dB	≤ 0.3	≤ 0.40
Transmission insertion loss	dB	≤ 1.0	≤ 1.1
Reflection passband ripple	dB	≤ 0.2	≤ 0.20
Reflection insertion loss	dB	≤ 0.4	≤ 0.40
Transmission isolation (adj channel)	dB	≥ 30	≥ 30
Transmission isolation (non-adj channel)	dB	≥ 50	≥ 50
Reflection isolation	dB	≥ 13	≥ 12
Polarization dependent loss	dB	≤ 0.2	≤ 0.2
Polarization mode dispersion	ps	≤ 0.2	≤ 0.2
Directivity	dB	≥ 50	≥ 50
Return loss	dB	≥ 45	≥ 45
Optical power handling	mW	≥ 500	≥ 500
Tensile Load	N	≥ 5	≥ 5
Operating temperature range	$^{\circ}\text{C}$	-5 to 70	-5 to 70
Storage temperature range	$^{\circ}\text{C}$	-40 to +85 $^{\circ}\text{C}$	-40 to +85
Fiber type		SMF-28e	SMF-28e
Package dimension	mm	5.5 x 34mm	5.5 x 34mm

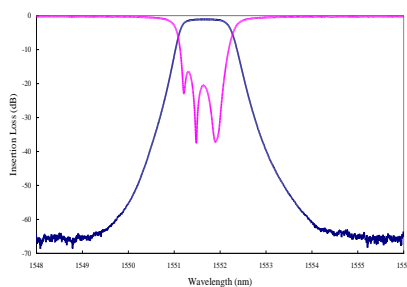
NOTE: 1) All the specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.

- 2) PMD and chromatic dispersion values are guaranteed by design.
- 3) Specifications are subject to change without notice

Dimension Drawing:



Spectral plot (dB) for 200GHz



Spectral plot(dB) for 100GHz

