

Red/Blue DWDM Splitters

OTN Solutions for Metro, Regional & Long Haul



Description

The C Band Red/Blue Filter Wavelength Division Multiplexer is a micro optics device based on environmentally stable thin film filter technology. It is used to separate or combine Red band wavelength signals and Blue band wavelength signals in C band range in DWDM systems.

In a DWDM module, which uses a Red/Blue filter, a Mux may be combined with a Demux. For example, the Mux combines DWDM channels in the Red band, while the Demux separates DWDM channels in the Blue Band. Using a Red/Blue filter, one can combine the Red Transmit channels and the Blue Receive channels onto a single fiber.

Features

- High level of integration by plug-in design
- High channel isolation and excellent environmental reliability
- Separate and polymerize Red-band signal and Blue-band signal

Application

- Single fiber Bi-directional DWDM system

Product Specifications

Working wavelength	C-Band	Pass band wavelength (nm)	1529.35~1541.55
Reflect band wavelength (nm)	1548.31~1560.81	Pass band insertion loss (dB)	≤0.7
Reflect band insertion loss (dB)	≤0.5	Pass band isolation (dB)	≥20
Reflect band isolation (dB)	≥12	Reflect band ripple (dB)	< 0.3
Directivity (dB)	≥50	Return loss (dB)	≥50
PDL (dB)	≤0.1	PMD (dB)	≤0.1
Wavelength thermal stability nm/°C	≤0.003	Insertion loss thermal stability dB/°C	≤0.005
Power handling (mW)	≤500		

Dimensions

4-slot 1U managed chassis, supports up to 4x multiplexer/EDFA/OEO/OLP card with accessories;

- Width: 482.6mm (19")
- Height: 44.50mm (1.75")
- Depth: 300mm (11.81")

R/B DWDM Splitters plug-in card occupies one slot.



Ordering Information

Housing	Cable Diameter	Connector	Fiber Length	Pass Band	Reflect Band
Steel tube	0.9mm	LC/FC/SC, APC/UPC	1m	1529.35 - 1541.55nm (CH45-CH60)	1548.31 – 1560.81nm (CH21-CH36)
Plug-in Card Type	2.0mm	ST/MU,UPC	1.5m	1548.31– 1560.81nm (CH21-CH36)	Special
1U 19" rack mount	3.0mm		2m	Special	
ABS box			Special		