



## DATASHEET

# Red/Blue DWDM Splitters

*Data Center & Cloud Computing  
Infrastructure Solutions*

## 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

## Applications

- Single fiber Bi-directional DWDM system

Product Specifications

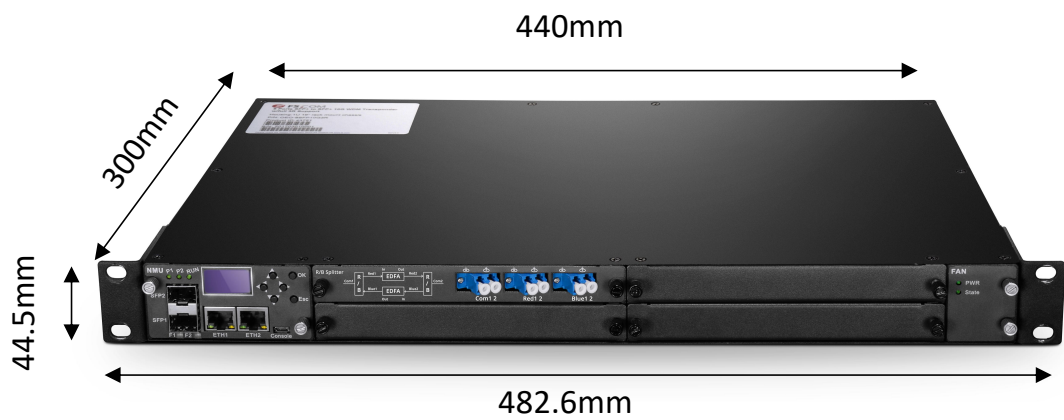
Working wavelength(nm)	C-Band	Pass band wavelength(nm)	1529.35~1541.55
Reflect band wavelength(nm)	1548.31~1560.81	Pass band insertion loss(nm)	≤0.7
Reflect band insertion loss (dB)	≤0.5	Pass band isolation(dB)	≥20
Reflect band isolation(dB)	≥12	Reflect band ripple(dB)	< 0.3
Directivity(dB)	≥50	Return 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	Steel tube	Plug-in Card Type				2-slot 1U 19" rack mount	ABS box
Cable Diameter	0.9mm	2.0mm				3.0mm	
Connector	LC/UPC SC/UPC	LC/APC SC/APC	FC/UPC ST/UPC	FC/APC MU/UPC			
Fiber Length	1m	1.5m	2m				
Pass Band	1529.35 – 1541.55nm (CH45-CH60)						
Reflect Band	1548.31 – 1560.81nm (CH21-CH36)						

\*Customized specifications are available upon request.



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