

## R/B Filter in C band

The 1x2 dense wavelength division multiplexing red/blue band filter launched by NewNets is a passive micro optical device based on the film filtering technology which is stable to the environment. It is mainly used to separate or combine red wave length signal and blue wave wavelength signal in C-band in DWDM system and high-power amplifier system. The device has the characteristics of wide passband, low insertion loss, high return loss, excellent environmental stability and high power processing ability.

### Product Feature

- Low insertion loss and polarization mode dispersion (PMD)
- Wide working wavelength range
- High channel isolation
- Low temperature loss
- Epoxy free optical path

### Application Area

- Red and blue band isolator
- Dense wavelength division multiplexing system
- Optical fiber amplifier

### Product Specification

Item		DWDM R/B Filter
Working wavelength range (nm)		1520.0 ~ 1562.3
Passband	Wavelength (nm)	1529.35( $\lambda_1$ ) ~ 1541.55(1548.31~1560.81 ( $\lambda_2$ ))
	Insertion loss (dB)	$\leq 1.0$
	Isolation (dB)	$\geq 25$
Reflection band	Wavelength (nm)	1548.31( $\lambda_2$ ) ~ 1560.81(1529.35~1541.55 ( $\lambda_1$ ))
	Insertion loss (dB)	$\leq 1.0$
	Isolation (dB)	$\geq 15$
Return loss (dB)		$\geq 50$
Direction (dB)		$\geq 50$
Polarization dependent loss (dB)		$\leq 0.1$
Polarization mode dispersion (ps)		$\leq 0.1$
Thermal stability (dB/°C)		$\leq 0.005$
Bearing optical power (dB)		$\leq 500$
Working temperature (°C)		0~+70
Storage temperature (°C)		-40 ~+85
Package type		Steel pipe, ABS box, card type are optional