

0305 1310 nm to 1610 nm WDM

W1029-S

1x2 1559.39 nm Filter



This WDM based pump/signal combiner utilizes thin-film filter technology to combine the pump power with the input signal. It features low insertion loss, low PDL, and negligible PMD. This device is used for building broadband, low-noise EDFAs and raman amplifiers for ultra-long haul networks. It is housed in a high-power handling metal package.

FEATURES

- Low Insertion Loss
- Low PDL

- Negligible PMD
- High Stability and Reliability

USE IN

- Building Broadband
- Low-noise EDFAs

 Raman Amplifiers for Ultra-long Haul Networks

FUNCTIONAL DIAGRAM



 λ pb=1554.89-1563.89 nm λ r1=1500-1551.39 nm λ r2=1567.39-1620 nm λ c=1 559.39 nm

λpb=1554.89 to 1563.89	nm λr1=1500 to 1551.39 nm		
λr2=1567.39 to 1620 nm	λc=1559.39 nm		
Insertion Loss	Port 1-2 @ λpb	0.29 dB	
Flatness	Port 1-2 @ λpb	0.06 dB	
Isolation	Port 1-2 @ λr1	31.5 dB	
Isolation	Port 1-2 @ λr2	27.1 dB	
Transmission Bandwidth @ 0.15 dB		10.16 dB	
Transmission Bandwidth @ 20.0 dB		14.33 dB	
Insertion Loss	Port 1-3 @ λr1	0.31 dB	
Insertion Loss	Port 1-3 @ λr2	0.32 dB	
Flatness	Port 1-3 @ λr1	0.07 dB	
Flatness	Port 1-3 @ λr2	0.04 dB	
Isolation	Port 1-3 @ λpb	23.4 dB	
Insertion Loss	Port 1-2 @λc	0.25 dB	
Insertion Loss	Port 1-3 @ λc-10 nm	0.27 dB	
Insertion Loss	Port 1-3 @ λc+10 nm	0.30 dB	

Order notes to our customers: The default parameters are as follows. For special needs, please contact sales.

- 1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.
- 2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.