AOFR
an Aegis Lightwave company

980/1550nm PUMP WAVELENGTH DIVISION MULTIPLEXERS

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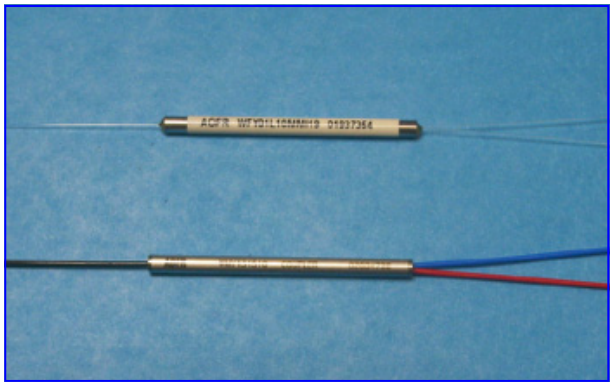
980/1550 MULTIPLEXER FOR EDFA PUMPING

AOFR's 980/1550 WDM are specifically designed to optimize the performance of Erbium Doped Fiber Amplifiers (EDFA's). The fiber has been designed to minimize loss and polarization dependence as well as reduced bend sensitivity. AOFR's proven fused biconic taper (FBT) technology and advanced production techniques give high stability and reliability with high power handling capability. Pump WDMs are available in a small tubular package suited for OEM applications.

FEATURES

- Low insertion loss
- High pump coupling efficiency
- All fiber construction
- Stable environmental performance
- High power handling capability
- Proven FBT performance
- Reduced bend sensitive 0.20NA or 0.16NA 980 fiber



SPECIFICATIONS

Configuration	1x2
Operating temperature	-40°C to 85°C
Pump Insertion loss (970-985nm)	<0.2dB
Signal Insertion loss (1525-1570nm)	<0.2dB
PDL	<0.05dB
Return loss/Directivity	>55dB
Fiber Type	980 Fiber (0.20 or 01.6NA)
Power handling	<4 Watts
Package	35mm or 45mm long x Ø3mm

980 FIBER SPECIFICATION

	0.20 NA	**0.16 NA**
Attenuation (dB/km at 980nm)	3.5	3.0
Mode field diameter (at 980nm)	4.2 ± 0.5µm	5.0 ± 0.3µm
Cut off wavelength	≤960nm	≤960nm
Numerical Aperture	0.20 (nominal)	0.16 (nominal)
Cladding diameter	125 ± 1µm	125 ± 2µm
Acrylate coating diameter	250 ± 15µm	245 ± 15µm
Proof test level	200 kpsi	200 kpsi

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ORDERING INFORMATION

Catalog Number

WM Y 0915 ____ ____ ____

Center Wavelength

0915	980/1550nm

Fiber Type

09	980 fiber (0.20NA)
08	980 fiber (0.16NA)

Connector Option[1]

blank	No connectors
AFC	FC angle polish
ASC	SC angle polish
ALC	LC angle polish
FCU	FC Ultra polish
SCU	SC Ultra polish
LCU	LC Ultra polish

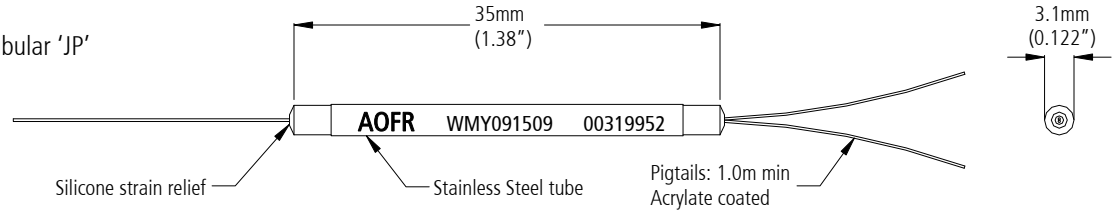
[1] Available w ith loose tube buffer only
Connector return loss:
Angle polish : 65dB minimum
Ultra polish: 57dB minimum

Package/Pigtail Option

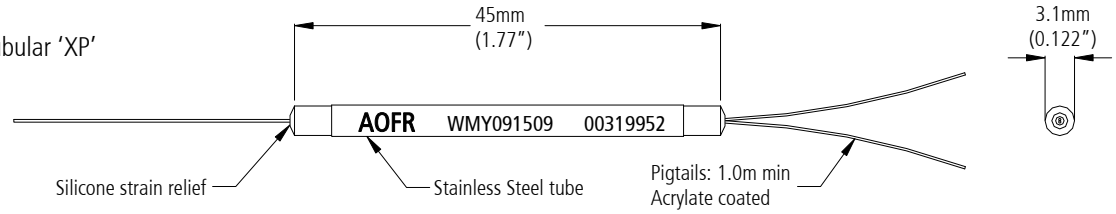
JP	35mm long x Ø3mm tubular 250µm acrylate coating
XP	45mm long x Ø3mm tubular 250µm acrylate coating
XL	46mm long x Ø3mm tubular 0.9mm loose tube buffer

PACKAGE OUTLINES

1x2 Tubular 'JP'



1x2 Tubular 'XP'



1x2 Tubular 'XL'