

1900nm PM Fixed In-line Optical Attenuator

1900nm PM Fixed In-line Optical Attenuator is a fiber component which can attenuate the optical power with a fixed attenuation value, the attenuation value can be up to 30dB, it's widely used in Quantum Communication system, fiber laser and Testing System. High power type is available upon request.

Application:

Quantum Communication
Fiber Laser
Testing System
Lab And Research

Features:

High Precision
High Extinction Ratio
High Attenuation
High Reliability



Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1900	nm
Bandwidth	BW	± 10	nm
Attenuation and Tolerance		1 $\pm$ 0.1, 2 $\pm$ 0.2, 3 $\pm$ 0.3, 5 $\pm$ 0.7, 10 $\pm$ 1.0, 15 $\pm$ 1.8, 20 $\pm$ 2.5, 30 $\pm$ 3.0 or customized	dB
Min. Extinction Ratio	ER	20	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensile Load		5	N
Fiber Type		PM 1950 or PM 1550 fiber	-
Operating Temperature	T	-5~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 3.0 \times L54$	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, ER will be 2dB lower, RL will be 5dB lower, slow axis is default aligned to the connector key.

Drawing:



Ordering Information (Part Number):

PMFIA- WWW - PP - AA - FF - J - LL - CC						
WWW	PP	AA	FF	J	LL	CC
Wavelength	Port	Attenuation	Fiber Type	Fiber Jacket	Fiber Length	Connector
1900 - 1900nm	11 - 1x1	01 - 1dB	P1 - PM 1950	B - 250um Bare Fiber	05 - 0.5m	NE - None
1940 - 1940nm		02 - 2dB	P5 - PM 1550	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1950 - 1950nm		03 - 3dB		2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
2000 - 2000nm		05 - 5dB		3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
2050 - 2050nm		10 - 10dB			SS - Specify	SU - SU/APC
2100 - 2100nm		15 - 15dB				LA - LC/APC
2200 - 2200nm		20 - 20dB				LU - LC/UPC
SSSS - Specify		30 - 30dB				SS - Specify
		SS - Specify				