

420nm PM Fixed In-line Optical Attenuator

420nm 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	420	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	18	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	300	mW
Max. Tensile Load		5	N
Fiber Type		PM-S405-XP 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 - J - LL - CC					
WWW	PP	AA	J	LL	CC
Wavelength	Port	Attenuation	Fiber Jacket	Fiber Length	Connector
405 - 405nm	11 - 1x1	01 - 1dB	B - 250um Bare Fiber	05 - 0.5m	NE - None
410 - 410nm		02 - 2dB	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
420 - 420nm		03 - 3dB	2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
430 - 430nm		05 - 5dB	3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
440 - 440nm		10 - 10dB		SS - Specify	SU - SU/APC
450 - 450nm		15 - 15dB			LA - LC/APC
458 - 458nm		20 - 20dB			LU - LC/UPC
458 - 458nm		30 - 30dB			SS - Specify
SSS - Specify		SS - Specify			