



In-Line Fixed Fused PM Fiber Attenuator

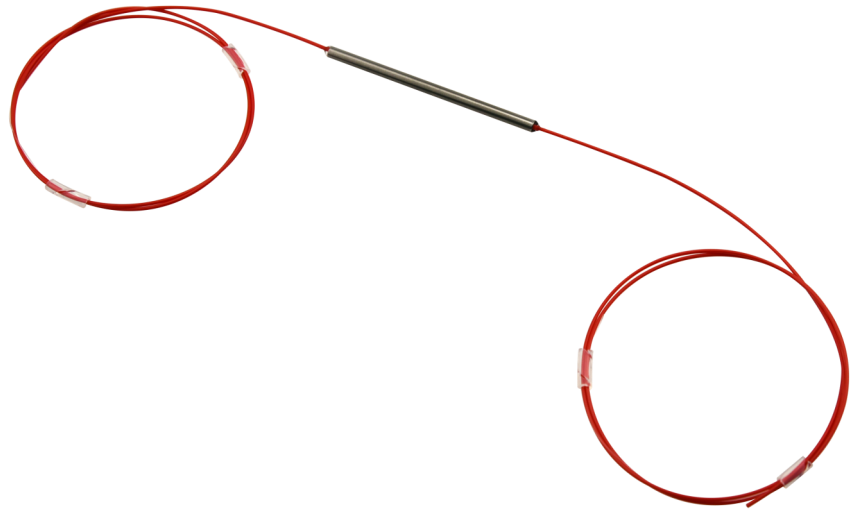
Key Features

- Low Insertion Loss
- High PER
- High Return Loss
- High Stability & Reliability

In-Line Fixed Attenuators are mainly used for adjusting the Optical Power to a desired level. We manufacture our attenuators with various specifications such as different connector types or end face configurations. The Attenuation Level in dB ranges from 0dB to 40 dB at intervals of 0.5 dB.

Applications

- Optical Power Control and Equalization
- Telecommunication Systems
- WDM Systems
- Fiber Optic Instruments



For more Info

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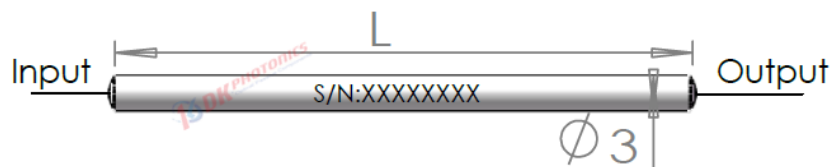
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Dimension



*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.



In-Line Fixed Fused PM Fiber Attenuator

Performance Specifications

Parameter	Unit	value	
Center Wavelength	nm	780,830, 980,1064	1310~2000
Operating Wavelength Range	nm	±10	±20
Min. Return loss	dB	50	
Max. Power Handling	mW	500	
Max. Tensile Load	N	5	
Fiber type	-	PM Panda fiber (PM780-HP, PM980, PM1550, PM1950)	
Operating temperature	°C	-5 ~ +70	
Operating temperature	°C	-40 ~ +85	
Dimensions	mm	3.0x54(for bare fiber/0.9mm tube)	
	mm	90x20x10(for 2.0mm/3.0mm tube)	

Attenuate Value and Its Tolerance & PDL

Attenuate Value (dB)	IL Tolerance (dB)		Min. PER (dB)			
	Premium	A grade	780nm, 830nm, 980nm,1064nm		1310-2000nm	
			Premium	A grade	Premium	A grade
1	±0.1	±0.2	20	18	20	18
2	±0.2	±0.3	20	18	20	18
3	±0.3	±0.4	20	18	20	18
5	±0.7	±0.8	20	18	20	18
10	±1.0	±1.2	20	18	20	18
15	±1.8	±2.2	20	18	20	18
20	+2.5	±3.0	18	15	18	15
30	±3.0	±4.0	N/A	N/A	N/A	N/A
40	±4.0	±5.0	N/A	N/A	N/A	N/A

1. Above specifications are for device without connector.

2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. The default connector key is aligned to slow axis. Power transmits through the connector less than 2W.

Order information P/N: PMILA-①-②-③-④-⑤-⑥-⑦

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250µm bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦
Wavelength	Grade	Attenuate Value	Fiber Type	Pigtails Diameter	Fiber Length	Connector
98: 980nm	15:1550nm	P: P Grade	P15: PM1550	90:900µm	08:0.8m	00: None
64:1064nm	20:2000nm	A: A Grade	xxx: fiber name	20:2.0mm	10:1.0m	FP: FC/PC
13:1310nm	XX: Others	10:10dB		30:3.0mm	XX: Others	FA: FC/APC
		05:5dB		XX: Others		XX: Others
		03:3dB				

Part Number Example: PMILA-15-P-10-P15-90-10-FA

Description: 1550nm In-Line Fixed Attenuators, 10dB Attenuate Value, P grade, 1.0m PM1550 fiber with 0.9mm OD loose tube, and FC/APC connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.