

In-Line Fixed Fused SM Fiber Attenuator

Key Features

- Low Insertion Loss & PDL
- High Return Loss
- High Stability & Reliability
- Low Cost
- Epoxy Free Optical Path

Applications

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

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.



For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

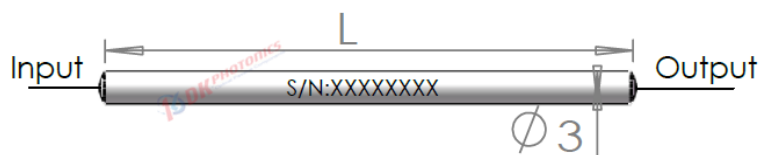
E-mail: sales@dkphotonics.com

<https://www.dkphotonics.com>

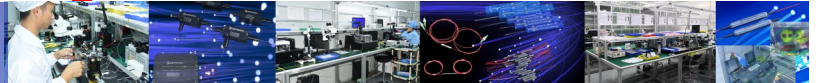
Add.:

4F, Bldg. 18, Qinghu Industrial Park,
Dahe Road, Longhua Dis.,
Shenzhen, China 518109

Package Dimensions



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



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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. PDL	dB	0.2
Max. Power Handling	mW	500
Max. Tensile Load	N	5
Fiber type	-	SMF fiber (780-HP, 1060-XP, SMF-28e, SM1950)
Operating temperature	°C	-40 ~ +85
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)		Max. PDL (dB)			
	Premium	A grade	780nm, 830nm, 980nm, 1064nm		1310-2000nm	
			Premium	A grade	Premium	A grade
1	±0.1	±0.2	0.15	0.2	0.1	0.15
2	±0.2	±0.3	0.15	0.2	0.1	0.15
3	±0.3	±0.4	0.15	0.2	0.1	0.15
5	±0.7	±0.8	0.15	0.2	0.1	0.15
10	±1.0	±1.2	0.15	0.2	0.1	0.15
15	±1.8	±2.2	0.15	0.2	0.1	0.15
20	+2.5	±3.0	N/A	N/A	N/A	N/A
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

- Above specifications are for device without connector.
- 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: ILA-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	P: P Grade	20:20dB	xxx: fiber name	90:900µm	08:0.8m	00: None
64:1064nm	A: A Grade	15:15dB		20:2.0mm	10:1.0m	FP: FC/PC
13:1310nm		10:10dB		30:3.0mm	XX: Others	FA: FC/APC
15:1550nm		05:5dB		XX: Others		SP: SC/PC
20:2000nm		03:3dB				SA: SC/APC
XX: Others						XX: Others

Part Number Example: ILA-15-P-10-S28-90-10-FA

Description: 1550nm In-Line Fixed Attenuators, 10dB Attenuate Value, P grade, 1.0m SMF-28e 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.