

Fixed optical attenuators

Fixed optical attenuators are used to reduce the power of light signals being transmitted through optical fibers. With fixed optical attenuators, signals are reduced by a specific amount. Using fixed attenuators makes signal reflection less of an issue and therefore makes for more accurate transmissions of data.

Fixed attenuators can be used with single mode, multimode and polarization maintaining fiber. There is low insertion loss and back reflection with the use of fixed optical attenuators.

Applications:

- Fixed attenuators are used in applications where a pre-determined amount of light loss is specified.
- DWDM applications
- Test & Measurement
- Optical Sensors

Features:

- Singlemode and multimode
- Multi attenuation methods, Core off-set, air gap, and filtered
- Low insertion loss and back reflection
- Attenuation ranges from 1dB to 30 dB
- PC, UPC and APC polish types

Specifications:

Environment Conditions

No.	Parameters	Min.	Max.	Units
1	Operating Temperature	-40	75	degree
2	Storage Temperature	-40	75	degree

Flange Type Index

No.	Attenuation Value (dB)	Attenuation Tolerance (dB)	Return Loss (dB)	Operational Wavelengths
1	1-2	$\cong \pm 0.25\text{dB}$	$\cong 35\text{dB}$	1310nm 1550nm 1310nm/1550nm
2	3-15	$\cong \pm 10\%\text{dB}$	$\cong 35\text{dB}$	1310nm 1550nm 1310nm/1550nm
3	16-30	$\cong \pm 2\text{dB}$	$\cong 35\text{dB}$	1310nm 1550nm 1310nm/1550nm

Plug in Type Index

No.	Attenuation Value (dB)	Attenuation Tolerance (dB)	Return Loss (dB)	Operational Wavelengths
1	1-2	$\cong \pm 0.25\text{dB}$	$\cong 50\text{dB}$ (UPC) $\cong 65\text{dB}$ (APC)	1310nm 1550nm 1310nm/1550nm
2	3-15	$\cong \pm 10\%\text{dB}$	$\cong 50\text{dB}$ (UPC) $\cong 65\text{dB}$ (APC)	1310nm 1550nm 1310nm/1550nm
3	16-30	$\cong \pm 2\text{dB}$	$\cong 50\text{dB}$ (UPC) $\cong 65\text{dB}$ (APC)	1310nm 1550nm 1310nm/1550nm

