

Metal-Doped Optical Fiber for Fixed Optical Attenuator

■ Features

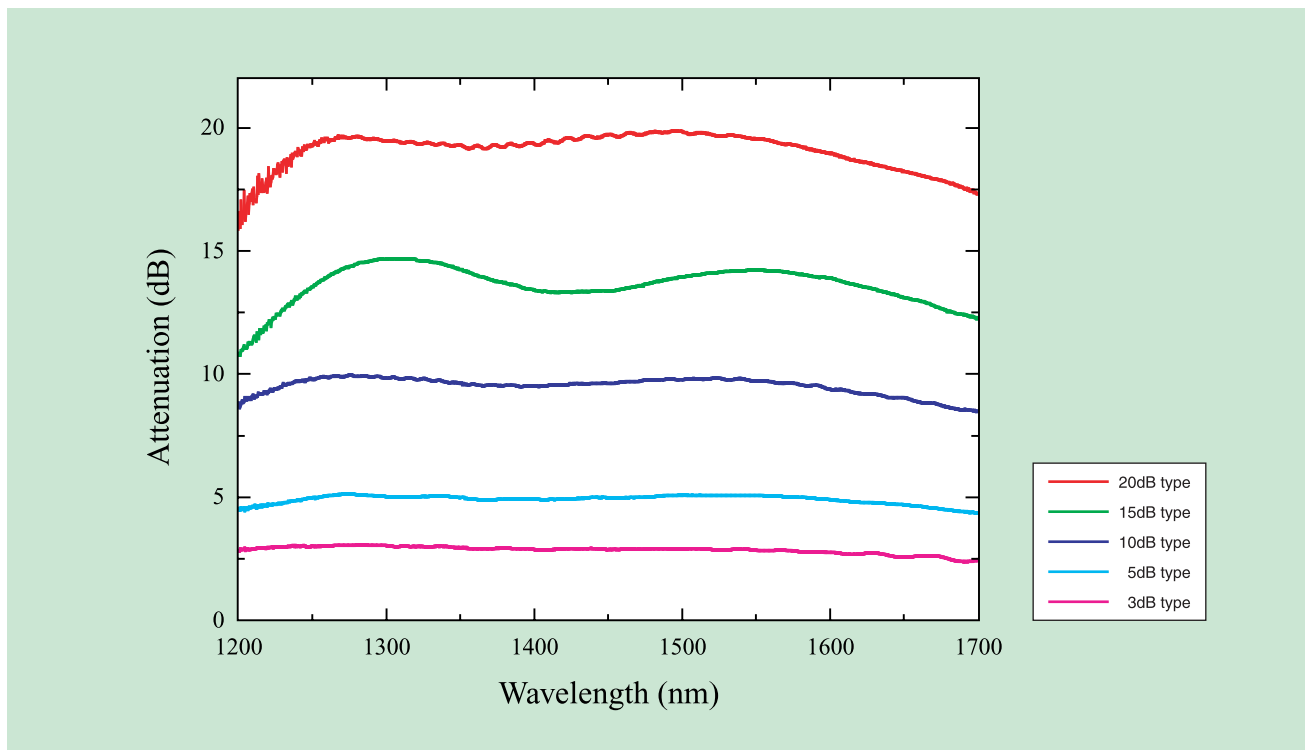
Using the Metal-Doped Optical Fibers (MDOFs), the following features of fixed optical attenuators can be obtained.

- Cladding mode suppression
- Simple structure (SC, FC, ST, LC, MU type attenuators)
- Superior high power durability (300~1000mW)
- Low polarization dependent attenuation
- Low wavelength dependent attenuation

■ Structure

Item	Specification
Material	Silica Glass Base
Cladding Diameter	$125 \pm 2.0 \mu\text{m}$
Concentricity error	$< 1.0 \mu\text{m}$
Cladding Non-Circularity	$< 2\%$
Coating	UV Curable resin
Coating Diameter	$250 \mu\text{m}$

■ Attenuation spectrum



Ordering Information

M D O F S L

Blank: Standard type, (P): Premium type
 Attenuation: Numeral means its attenuation (dB)
 Connector type (Blank: SC, FC and ST type,
 MU: MU type, LC: LC type)

Type No.	Type	Tolerance	Wavelength	Wavelength Dependency ¹	Power durability		
MDOF01SL } MDOF10SL	FC,SC,ST dB/22.4±0.1mm	±1.0dB	SMF 1310nm & 1550nm	—	1~5dB type : 1000mW 6~15dB type : 750mW 16~20dB type : 500mW		
MDOF11SL } MDOF20SL		±1.5dB					
MDOF01SL(P) } MDOF05SL(P)	FC,SC,ST dB/22.4±0.1mm	±0.5dB	SMF 1310nm & 1550nm	<0.3 dB			
MDOF06SL(P) } MDOF10SL(P)		±5%		<7.5%			
MDOF11SL(P) } MDOF20SL(P)							
MDOFMU01SL } MDOFMU02SL	MU dB/16.7±0.1mm	±0.5dB	SMF 1310nm & 1550nm	<0.5 dB		1~3dB type : 1000mW 4~5dB type : 500mW 6~20dB type : 300mW	
MDOFMU03SL } MDOFMU05SL		±1.0dB		<0.75 dB			
MDOFMU06SL } MDOFMU10SL				±1.5dB	<1.0 dB		
MDOFMU15SL } MDOFMU20SL		±2.0dB		<1.5 dB			
MDOFLC01SL } MDOFLC03SL		LC dB/15.3±0.1mm		±0.5dB	SMF 1310nm & 1550nm		<0.5 dB
MDOFLC05SL } MDOFLC10SL				±1.0dB			<0.75 dB
MDOFLC15SL } MDOFLC20SL	±1.5dB		<1.0 dB				
	±2.0dB		<1.5 dB				

NOTE : 1.Wavelength Dependency means attenuation difference in dB between the maximum values of attenuation over the range of wavelength 1280–1340 nm and 1530–1610 nm for the Premium type, and 1280–1340 nm and 1510–1620 nm for the Standard type.
 2.For the case of that the MDOFs inserted in a ferrule.

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