

DESCRIPTION

Optical attenuator is used to reduce the optical signal power in the optical fiber to avoid saturation of the photodetector so that the optical receiver is operating within its dynamic range. Adopting advanced attenuation fiber technology, Plug-In type fixed value attenuators feature miniaturized, high power endurance and low back reflection, suitable for high speed digital transmission and analog applications. On the other hand, In-line type attenuator is used to attenuate the optical signal in a link and to replace the conventional cable assembly and attenuator combinations. It is compact, multi-purpose passive device designed to operate at 1310 & 1550 for single mode and 850 & 1300nm for multimode. We offer both single mode and multimode in FC, SC, ST, LC and MU types.



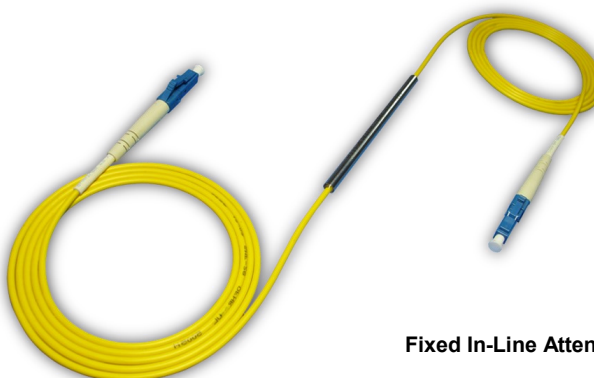
FEATURES

- Excellent optical performance is achieved by adapting cladding mode suppression method for In-line attenuator
- In compliance with Telcordia (GR-910-Core) standard
- Operating temperature in compliance with IEC 61753-1 Table A.1
- High return loss
- Wide wavelength range
- Polarization insensitive
- Compact and rugged housings

Fixed Plug-In Attenuator

APPLICATIONS

- Optical power equalization
- CATV, LAN and telecommunications
- Test and measurement
- Channel balancing for WDM systems
- Receiver padding
- Optical transmission systems



Fixed In-Line Attenuator

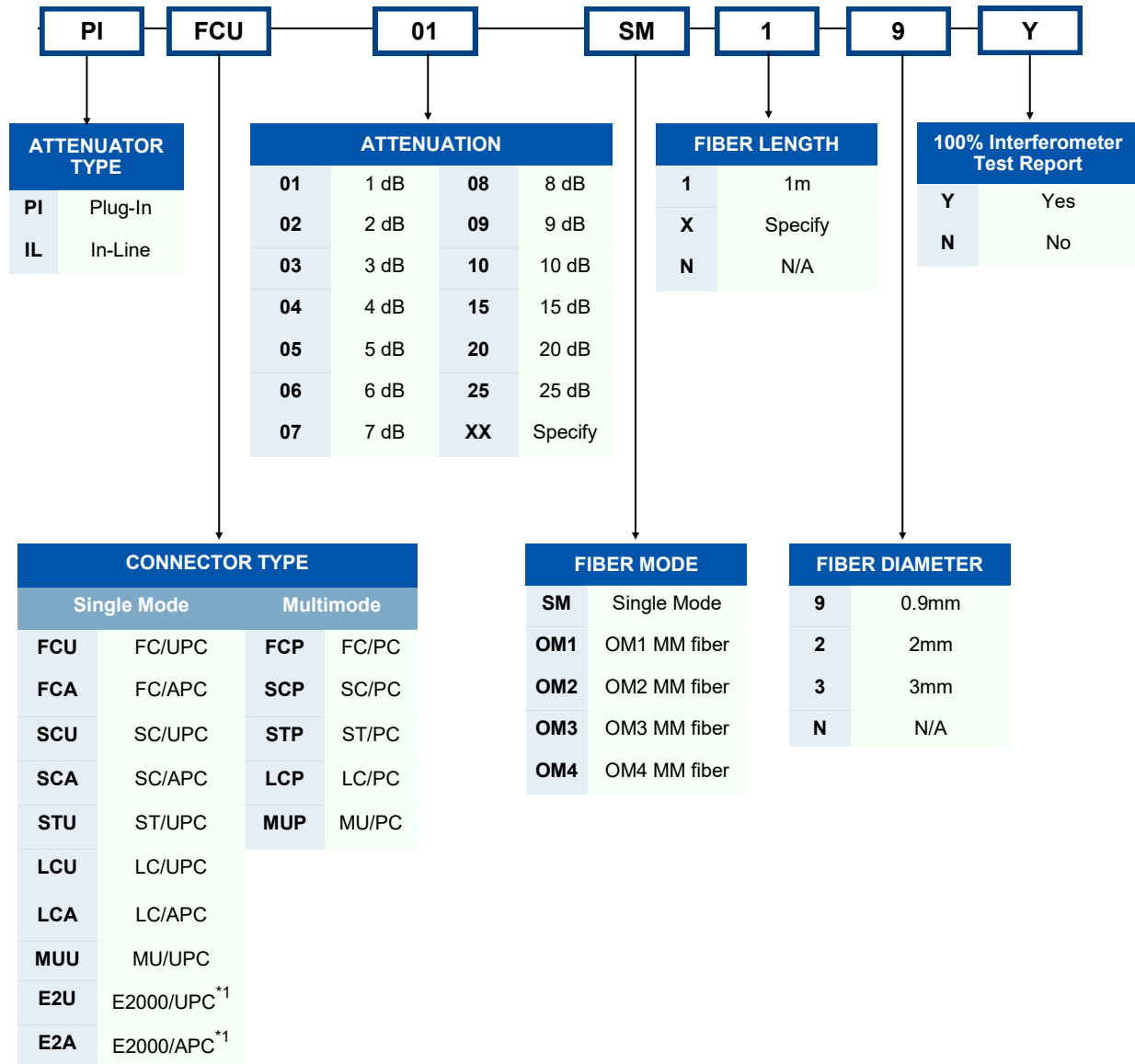
SPECIFICATIONS

Characteristic	Plug-In Type		In-Line Type	
Fiber Type	SM	MM	SM	MM
Operating Wavelength (nm)	1310 & 1550	850	1310 & 1550	850
Attenuation (dB)	1 ~ 30 (1-5dB step selectable)			
Connector Type	SC, FC, ST, LC, MU, E2000			
	UPC & APC	PC	UPC & APC	PC
Tolerance	± 0.5dB (0~9)		± 0.15dB (1~5)	
	± 10% (10~30)		± 10% (6~19)	
	-		± 2.0dB (20~30)	
Return Loss (dB)	≥ 50 (UPC) , ≥ 65 (APC)			
Accuracy (dB)	± 0.1 * Attenuation value @ specified wavelength			
PDL (dB)	≤ 0.2			
Cable Diameter (mm)	-		Φ3, Φ2, Φ0.9	
Total Length (m)	-		1 or Custom	
Operating Temperature (°C)	-40 ~ +75°C			
Storage Temperature (°C)	-45 ~ +85°C			
Material	Polymeric plastic tested in accordance to IEC60068-2-10 and in compliance with UL94 V-0 Rating Corrosive resistant nickel plated brass material for metal parts			

ATTENUATOR

ORDERING INFORMATION

EXAMPLE : PI-FCU-01SM (for Plug In Type)
IL-FCU-FCU01SM19Y (for In-Line Type)



Note:

* 1 E2000 connectors are from R&M