SC Attenuator

Description

■ A fiber optic attenuator is a passive device used to reduce the amplitude of a light signal without significantly changing the wave form itself. This is often a requirement in Dense Wave Division Multiplexing (DWDM) and Erbium Doped Fiber Amplifier (EDFA) applications where the receiver cannot accept the signal generated from a high-power light source.

■ SC attenuator feature a proprietary type of metal-ion doped fiber which reduces the light signal as it passes through. This method of attenuation allows for higher performance than fiber splices or fiber offsets or fiber clearance, which function by misdirecting rather than absorbing the light signal. SC attenuator are capable of performing in the 1310 nm and 1550 nm for Single-Mode, and 850nm for Multi-Mode.

■ SC attenuator are capable of withstanding over 1W of high power light exposure for extended periods of time, making them well-suited to EDFA and other high-power applications.

■ Low Polarization Dependent Loss (PDL) and a stable and independent wavelength distribution makes.

Features

■ Metal-ion doped fiber (continuous)
■ Simple and Reliable Structure
■ Durability (well over 1 W) (EDFA)
■ Wavelength Independent (DWDM)
■ Low PDL (<0.1dB)
■ Low Polarization dependence
■ Compliant with Bellcore GR-910-CORE
■ Compliant with IEC61754-4
■ All parts compliant with RoHS

Application

■ Telecommunication networks
■ CATV & LAN
■ Date networks
■ Passive Optical Networks

Parameter

Item	Specifications	
	A Grade	P Grade
Wavelength	1310nm ~ 1550nm (Single-Mode)	
Attenuation Tolerance(dB)	1-10dB<±1.0dB	1-10dB<±0.5dB
	11-25dB<±(10%×A)*	11-25dB<±(5%×A)*
Return Loss	RL≤ -50dB (UPC)	RL≤ -60dB (APC)
PDL	<0.1dB	
Operating Temperature	-40℃~+85℃	
Storage Temperature	-40℃~+85℃	
Note: A = Attenuation Value		

Item	Specifications	
	A Grade	P Grade
Wavelength	850nm (Multi-Mode 50/125um)	
Attenuation Tolerance(dB)	2dB,5dB,10dB <±1.0dB	2dB,5dB,10dB <±0.5dB
	15dB<±(10%×A)*	15dB<±(5%×A)*
Return Loss	/	
Operating Temperature	-40℃~+85℃	
Storage Temperature	-40℃~+85℃	

Note: A = Attenuation Value

Appearance & Dimension

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Φ2.5 1.8 2.2 9 12.6 33.6

Unit: mm