Variable optical attenuator : YS-5020type

The YS-5020 is a variable optical attenuator applying the Faraday effect of magneto-optical crystals. This VOA have faster response speed than YS-5010 type. The response time is typical 30μsec.

Features

- ●Compact size (Cylindrical)
- ● Non-Mechanical (using Magneto-optics technology)
- ● High reliability
- ● Fast response (Typ.30μsec)
- ● Voltage control

Specifications

Items	YS-5020-155		YS-5020-159		Conditions
	Min.	Max.	Min.	Max.	
Wavelength range (λo)	1530 nm	1565 nm	1570 nm	1610 nm	
Driving Voltage (Vop)		4 V		4 V	
Minimum Attenuation		1.5 dB		1.6 dB	at T0, λo, 0V
Maximum Attenuation	20 dB		20 dB		at T0, λo, Vop
Polarization dependent loss		0.5 dB		0.5 dB	at T0, λo, Vop ≤ 15dB attenuation
Wavelength Dependent Loss		0.7 dB		0.8 dB	
Polarization mode dispersion		0.05 ps		0.05 ps	at T0, λo, Vop
Return loss	45 dB		45 dB		at T0, λo, Vop
Response Speed		100 μsec		100 μsec	
Max. incident power		500mW		500mW	
D.C. Resistance	65Ω				25ºC
Inductance	1.2 mH				25ºC
Insulation	1 MΩ		1 MΩ		100V.1min
Fiber type	Corning SMF28e+ or equivalent				
Fiber length	1m min				
Connector type	None				

Operating temp. range [T0]	-5~+70degC
Storage temp. range [Ts]	-40~+85degC

Shapes and dimensions