

Programmable Optical Variable Attenuator

YH-OVA-60

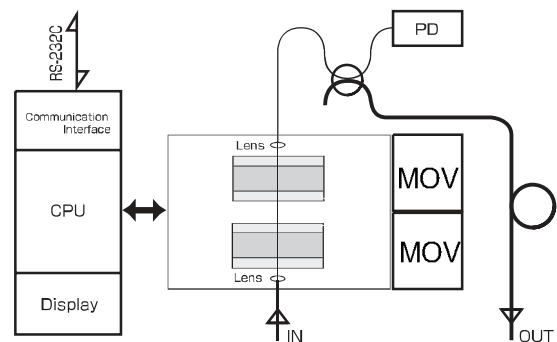
YH has recently extended its range of benchtop fiber-optic test and measurement equipment with the OVA-60 Optical Variable Attenuator. This fully controllable, high-specification unit is well-suited for both laboratory and production environments. The OVA-60 provides up to 60 dB attenuation, with resolution of 0.01 dB and low minimum insertion loss (2.0 dB). Exhibiting extremely low PDL and low wavelength dependence, the OVA-60 can be used in both C and L-band DWDM applications. A power monitor is incorporated as a standard feature, enabling automatic power control. When this function is enabled, attenuation is automatically adjusted to maintain a constant output power independent of input power level.



Features

- ▶ 60 dB attenuation range
- ▶ Low insertion loss (2.0 dB)
- ▶ Low wavelength dependence (<0.2 dB loss variation over 40 nm)
- ▶ Optical power monitor included
- ▶ Automatic Power Control (APC) mode to maintain constant output power
- ▶ Front-panel or RS-232C control interface
- ▶ High resolution (0.01 dB)
- ▶ Low PDL/PMD
- ▶ FC/PC or FC/APC connector interface
- ▶ Utility software available

Principle of Operation

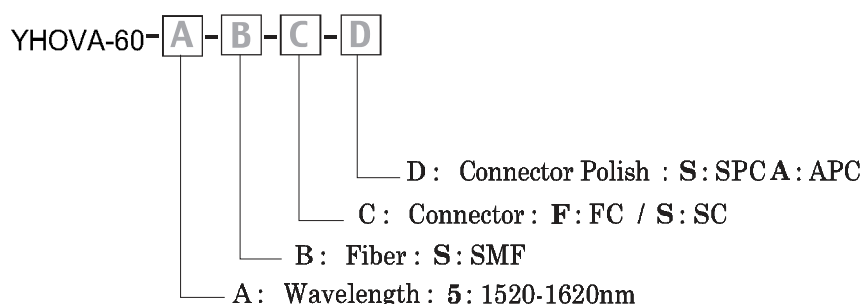


The OVA-60 incorporates two highly linear neutral density filters. These are mounted on independently controlled sliders and allows for customization of both the attenuation range and resolution. In the standard configuration an element with 40dB maximum attenuation is mounted on one slider, and an element with 20dB maximum attenuation is mounted on the second. This combination achieves a high 60dB attenuation range whilst maintaining resolution of better than 0.01dB.

■ Specifications

Type	Parameter	Unit	Spec	Notes
Optical Characteristics	Attenuation Range	dB	0-60	
	Attenuation Resolution	dB	0.001	
	Attenuation Accuracy	dB	$\leq \pm 0.1$	Mechanical resolution
	Attenuation Repeatability	dB	$\leq \pm 0.1$	
	Wavelength range	nm	1520-1620	
	Wavelength Dependency	dB/nm	0.2/40	
	Input Power	dBm	+20	@1530-1610nm
	Power Accuracy	dB	$\leq \pm 0.1$	
	Insertion Loss	dB	< 2.0	@1530-1610nm
	PDL	dB	< 0.1	
	Return Loss	dB	> 45	
	PMD	ps	< 0.1	
Environmental Conditions	Operating Temp. Range	°C	20~30	Design guaranteed performance
	Operating Humidity Range	%	< 80	
	Storage Temp. Range	°C	10~40	Non condensing
	Storage Humidity Range	%	< 80	
	Recommendation Calibration Period	Year	1	Non condensing
Interface	Optical Connector	-	FC or SC	
	Connector Polish	-	SPC or APC	
	RS-232C	-	Yes	
Power supply	Voltage	V	AC100-240	
	Power Consumption	VA	11	(Typ.)
	Frequency	Hz	50/60	
	Max. Power Consumption	W	40	
Dimensions	Width x Height x Depth	mm	210 x 80 x 300	
	Weight	kg	4	

■ Ordering Code



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1. YHT: owned by YinHang technology co., ltd.

2. this product is normally not used in airspace application, if it is needed to use in this application, please contact YHT.