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Opto-Link  
Corporation Ltd

# Variable Optical Attenuator (VOA)

Automatic and manual fiber optic variable optical attenuators (VOAs) are optimized for DWDM network applications. These series offer stable performance over wide temperature and wavelength ranges. In addition, they provide low insertion loss and high resolution and repeatability. Custom design for specific customer applications are available. It is ideal for managing optical power in metro and long haul DWDM transport applications.

## Types

- Benchtop with LCD
- Electrical
- Manual



## Applications

- CATV systems
- DWDM networks
- Optical add/drop multiplexing
- Optical communication system testing
- Optical device manufacturing
- Optical parameter measurement
- Telecommunication systems
- Power control and equalization in multichannel systems

## Features

- High attenuation accuracy
- Low insertion loss
- Large attenuation range
- Compact size
- High stability and high reliability
- Self-diagnostic
- Easy operation



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## SPECIFICATIONS

### Benchtop VOA

Parameter		Performance	Unit
Operating Wavelength		1280 to 1580	nm
Calibrated Wavelength		1310, 1550, 1310/1550	nm
Attenuation Range		0 to 60	dB
Attenuation Deviation Accuracy		± 0.5	dB
Resolution		0.01 (Typical) 0.02 (Max)	dB
Residual Attenuation	Max	1.5	dB
Return Loss	Min	45	dB
Switching Repeatability		± 0.1	dB
Max. Allowable Input Level		300	mW
Polarization Dependent Loss (PDL)		0.05 (Typical) 0.15 (Max)	dB
Power Supply		220 AC power supply	V
Operating Temperature		0 to 50	°C
Storage Temperature		-10 to +60	°C
Dimensions		210 x 206 x 80	mm <sup>3</sup>

Output	
Display	4 digits LCD
Display Parameters	Optical attenuation in dB, measurement wavelength, out of range
Connectors	FC/APC, others on request

### Electrical / Manual VOA

Parameter		Electrical	Manual	Unit
Calibrated Wavelength		1310, 1550, 1310/1550		nm
Attenuation Range		0 to 30	0 to 40	dB
Resolution	0 - 20 dB	0.1	0.1	dB
	20 - 40 dB		0.3	dB
Insertion Loss	Typ		0.5	dB
	Max	0.6	1.0	dB
Return Loss	Typ	45	50	dB
Polarization Dependent Loss (PDL)	0 - 20 dB	< 0.1	< 0.15	dB
	20 - 40 dB		< 0.3	dB
Operating Temperature		-15 to +70	0 to +60	°C
Storage Temperature		-40 to +85	-20 to +70	°C
Dimensions		50 x 25 x 12	24 x 12 x 12	mm <sup>3</sup>

## ORDERING CODES

Benchtop VOA:

OLVOA - B -  -

Wavelength	Code
1310 nm	131
1550 nm	155
1310/1550 nm	135

Electrical/Manual VOA:

OLVOA -  -  -  -

Type	Code
Electrical	E
Manual	MN

Wavelength	Code
1310 nm	131
1550 nm	155
1310/1550 nm	135

Cable Diameter	Code
900 μm	90
3.0 mm	3

Connector Type	Code
No Connector	NC
FC/PC	FP
SC/PC	SP
FC/APC	FA
SC/APC	SA
LC/PC	LP
MU/PC	MP

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