



Opto-Link
Corporation Ltd

Variable Optical Attenuator (VOA)

(Wavelength: 980nm, 1064nm)

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

- Electrical



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

Electrical VOA

Parameter	Value	Unit
Wavelength Range	980 & 1060	nm
Attenuation Range	30	dB
Attenuation Resolution	< 0.1	dB
Insertion Loss	< 1.5	dB
Return Loss	> 45	dB
Polarization Dependent Loss (PDL)	< 0.1	dB
Temperature Dependent Loss	< 0.3	dB
Repeatability	< 0.1	dB
Response Speed	< 100	ms/3dB
Latching Stability	< 0.2	dB
Operating Temperature	-5 to 70	°C
Storage Temperature	-40 to +85	°C
Dimensions	25x 12 x 25	mm ³
Connector Pins	2 mm grid	
Package Style	Hermetically Sealed	

*Above specifications are measured at 980nm.

Electrical Parameters

Parameter	Value	Unit
Motor	Step Motor, 2 Phase	
Recommended DC Control Voltage	3.3 +/- 0.3	V
Motor Resistance	19.5 to 23	ohm/phase
Motor Current	200	mA/phase
Control Pulse Frequency	300 to 1000	pps
Power Consumption	Max 2	W
Total Resistance	10 +/- 2	kohm

ORDERING CODES

Electrical VOA:

OLVOA - [] - [] - [] - []

Type	Code	Wavelength	Code	Cable Diameter	Code	Conector Type	Code
Electrical	E	980 nm	098	900 μm	90	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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