

MEMS Variable Optical Attenuator (SVOA)

Features

- Low insertion loss
- Compact size
- Available in both normally open and closed states

Application

- Power equalisation in multi-channel, optically amplified network
- Gain-tilt control in EDFA
- Dynamic Gain/Channel Equalisers/in DWDM/CWDM networks
- Photoreceiver trimming
- Receiver protection/switch during transmitter turn-ons
- Optics lab use

Specifications:

Parameter	Value
Operating Wavelength (nm)	1528-1565 or 1570-1607
Attenuation range (dB)	≤30
Insertion loss (dB)	≤0.8
PDL (dB)	≤0.3 (0-15dB) ≤0.5 (15-20dB)
PMD (ps)	≤0.1
Response Time (ms)	≤10
TDL (dB)	≤3.0 (0-20)
Return Loss (dB)	≥40
Operating Temperature (°C)	-5 - +65
Fibre Type	SMF-28e
Hermeticity (Atm.cm ³ /s)	<10 ⁻⁷
Package Dimensions (mm)	5.5x25

Ordering options

SVOA	Type	Wavelength	Attenuation Range	Operating Voltage	Pigtail Type	Fibre Type	Length	Connector
	Dark Bright	1550 1590 C+L	15dB 20dB 30dB	5V 15V	250um bare fibre 900um loose tube	SMF-28e	1m	None FC/APC FC/UPC SC/APC SC/UPC LC/UPC LC/APC MU/UPC Other