



High Speed Response Variable Optical Attenuator (VOA)

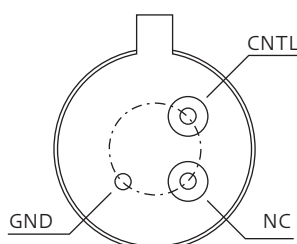
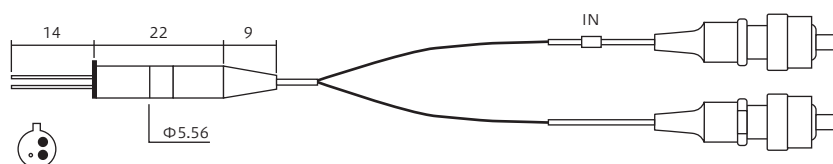
Less than 5V needed for a maximum attenuation range

Orbray's MEMS (Micro Electro-Mechanical System) Variable Optical Attenuators (VOAs) are designed for latest optical network systems by providing low insertion loss, wide attenuation range, flat wavelength dependence and low polarization dependence loss.

Features

- Original patented MEMS structure (US 7535620)
- Ultra High Speed response time(Typ. 0.4 ms)
- Low Operating Voltage (5 V)
- Low Insertion Loss
- Flat WDL and Low PDL
- Compact package
- Available in both Bright & Dark configuration
- Excellent operating vibration and shock performance
- Qualified to Telcordia GR-1221
- RoHS Compliant
- Customized flexibility (Multimode, Wavelength)

Package Dimensions



Applications

- OADM and MUX / DEMUX
- Optical power controller and equalizer
- Amplifier gain control

Ordering Codes

AMVOA				
	Attenuation Type	Operating Wavelength Range	Connector Type	Fiber Length
	NB : Bright	C : C-Band	FC : FC-UPC	FA : FC-APC
	ND : Dark	L : L-Band	SC : SC-UPC	SA : SC-APC
		CL : CL-Band	LC : LC-UPC	LA : LC-APC
			MU : MU-UPC	MA : MU-APC
			NC : No connector	
				10 : 1.0 m
				15 : 1.5 m
				XX : X.Xm

Specifications

parameter	value	notes
Attenuation type	Bright / Dark	
Wavelength	1530 ~ 1565 nm 1565 ~ 1610 nm 1530 ~ 1610 nm	C-Band L-Band C/L-Band
Insertion Loss	0.8 dB	Typ. 0.5 dB Including connector
Return Loss	45 dB	Typ. 50 dB
Attenuation Range	30 dB 40 dB	Bright Dark
Wavelength Dependent Loss	0.5 dB (10 dB ATT.) 1 dB (20 dB ATT.)	Typ. 0.3 dB Typ. 0.6 dB
Polarization Dependent Loss	0.3 dB (20 dB ATT.)	Typ. 0.2 dB
Response Speed	1ms	Typ. 0.4 ms
Optical Power Handling	500 mW	
Power Consumption	100 nW	
Operating Temperature	- 5°C ~ + 70 °C	
Storage Temperature	- 40°C ~ + 85°C	
Operating Voltage	5 V 6 V	Bright Dark
Fiber type	SMF - 28 (or Equivalent)	





High Speed Response Ultra Compact Variable Optical Attenuator (VOA)

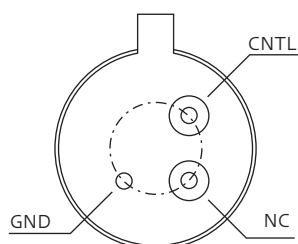
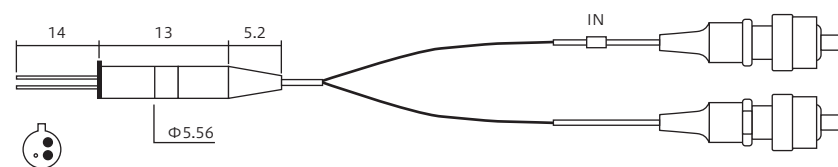
Less than 5V needed for a maximum attenuation range

ADAMANT's MEMS (Micro Electro-Mechanical System) Variable Optical Attenuators (VOAs) are designed for latest optical network systems by providing low insertion loss, wide attenuation range, flat wavelength dependence and low polarization dependence loss.

Features

- Original patented MEMS structure (US 7535620)
- Ultra High Speed response time(Typ. 0.4 ms)
- Low Operating Voltage (5 V)
- Low Insertion Loss
- Flat WDL and Low PDL
- Compact package
- Available in both Bright & Dark configuration
- Excellent operating vibration and shock performance
- Qualified to Telcordia GR-1221
- RoHS Compliant
- Customized flexibility (Multimode, Wavelength)

Package Dimensions



Applications

- OADM and MUX / DEMUX
- Optical power controller and equalizer
- Amplifier gain control

Ordering Codes

AMVOA				
	Attenuation Type	Operating Wavelength Range	Connector Type	Fiber Length
	NB : Bright	C : C-Band	FC : FC-UPC	10 : 1.0 m
	ND : Dark	L : L-Band	SC : SC-UPC	15 : 1.5 m
		CL : CL-Band	LC : LC-UPC	XX : X.Xm
			MU : MU-UPC	
			MA : MU-APC	
			NC : No Connectors	

Specifications

parameter	value	notes
Attenuation type	Bright / Dark	
Wavelength	1530 ~ 1565 nm 1565 ~ 1610 nm 1530 ~ 1610 nm	C-Band L-Band C/L-Band
Insertion Loss	0.8 dB	Typ. 0.5 dB Including connector
Return Loss	45 dB	Typ. 50 dB
Attenuation Range	30 dB 40 dB	Bright Dark
Wavelength Dependent Loss	0.5 dB (10 dB ATT.) 1 dB (20 dB ATT.)	Typ. 0.3 dB Typ. 0.6 dB
Polarization Dependent Loss	0.3 dB (20 dB ATT.)	Typ. 0.2 dB
Response Speed	1ms	Typ. 0.4 ms
Optical Power Handling	500 mW	
Power Consumption	100 nW	
Operating Temperature	- 5°C ~ + 70 °C	
Storage Temperature	- 40°C ~ + 85°C	
Operating Voltage	5 V 6 V	Bright Dark
Fiber type	SMF-28 (Equivalent)	

