



High Speed Response Variable Optical Attenuator (VOA)

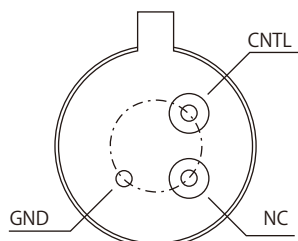
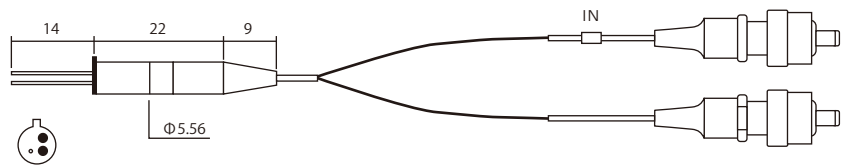
Less than 5V needed for a maximum attenuation range

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

NB : Bright
ND : Dark



Operating Wavelength Range

C : C-Band
L : L-Band
CL : CL-Band



Connector Type

FC : FC-UPC FA : FC-APC
SC : SC-UPC SA : SC-APC
LC : LC-UPC LA : LC-APC
MU : MU-UPC MA : MU-APC
NC : No connector



Fiber Length

10 : 1.0 m
15 : 1.5 m
XX : X.Xm

Specification

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)	

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Details of this product





High Speed Response Ultra Compact 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.

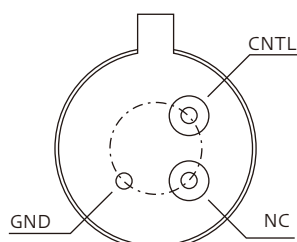
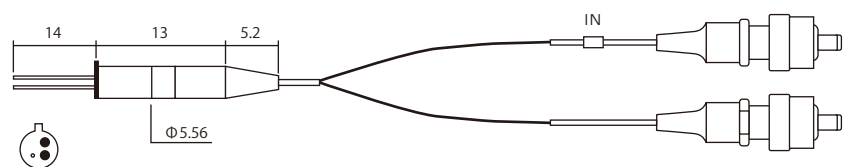
Features

- 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)

Applications

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

Package Dimensions



Ordering Codes

AMVOA



Attenuation Type

NB : Bright
ND : Dark



Operating Wavelength Range

C : C-Band
L : L-Band
CL : CL-Band



Connector Type

FC : FC-UPC FA : FC-APC
SC : SC-UPC SA : SC-APC
LC : LC-UPC LA : LC-APC
MU : MU-UPC MA : MU-APC
NC : No Connectors



Fiber Length

10 : 1.0 m
15 : 1.5 m
XX : X.Xm

Specifications

parameter	value	notes
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