O-Net Communications

Smart Optical Component Solutions

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ATTENUATION/MONITORING

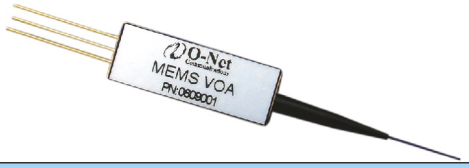
MEMS VOA

Features

- Compact size
- Low loss, low PDL
- Low wavelength dependence over C-band or L-band
- Fast response time
- Hermetically sealed MEMS chip
- Insensitive to shock & vibration
- Low power consumption

Applications

- Optical network power management
- Gain-tilt control in EDFA
- Receiver protection
- Channel on/off switching
- Mux/Demux module, OADM node

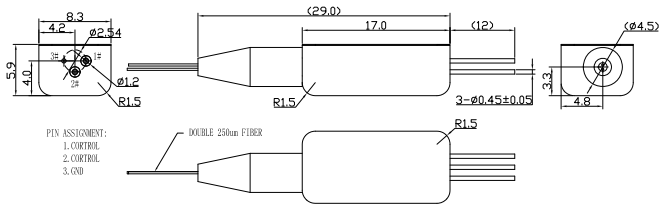


Specifications

Parameter			Specification		Unit
Configuration			Bright	Dark	
Operating Wavelength Range			C-band: 1525~1575; L-band: 1570~1610		nm
Attenuation Range		Max	25	25	dB
Insertion Loss[1]		Max	0.8	0.9	dB
Tuning Speed		Max	20	20	ms
Wavelength Dependent	0~10dB attenuation	Max	0.3	0.3	dB
Flatness	10~20dB attenuation	Max	0.4	0.4	dB
Temperature Dependent Attenuation[2]	at IL	Max	±0.3	±0.3	dB
	at 10dB	Max	±0.5	±1.2	dB
	at 20dB	Max	±0.7	±1.5	dB
Polarization Dependent Loss	0~10dB attenuation	Max	0.1	0.1	dB
	10~20dB attenuation	Max	0.2	0.2	dB
Return Loss[1]		Min	45	45	dB
Optical Power Handling(per channel)		Max	24	24	dBm
Power Consumption (per channel)		Max	150	150	mW
Drive Voltage		Max	6	5	V
Operating Temperature Range			0~+70		℃
Storage Temperature Range			-40~+85		℃
Package Dimension (L*W*H)[3]			29*8.3*5.9		mm

1. Excluding connectors; Typical insertion loss of a pair of connectors will be 0.3dB.
2. Relative to 25℃; Under constant drive power for bright type; Under constant drive voltage for dark type; O-net can provide control solution.
3. length with rubber boot.

Dimension



Order Information

MMVOA-A-B-C-D

A	Type	1: Bright Type 2: Dark Type
B	Operating Wavelength	15: C-band 16: L-band
C	Fiber Type	1: 250m bare fiber 2: 900m fiber
D	Connector Type	0: without connector 1: FC/PC 2: FC/UPC 3: FC/APC 4: SC/PC 5: SC/UPC 6: SC/APC 7: ST 8: LC 9: MU X: Customized