MEMS Variable Optical Attenuator

Features:

- Low Insertion Loss
- Large Attenuation Range
- Low PDL, Low WDL
- Low Power Consumption
- Normally Closed or Normally Open
- RoHS Compliant

Applications:

- Power Management in Optical Network
- Power Balancing Between Amplification Stages
- Dynamic Optical Power Control and Channel Equalization
- Channel Balancing for Optimizing Transmission Performance

Specifications[1]:

Parameter		Unit	
Operating Wavelength Range		nm	C-Band or L-Band
Dynamic Attenuation Range		dB	>30
Insertion Loss	Max.	dB	1.0(0.7 typ.)
Wavelength Dependent Loss[1] (WDL)	Up to 20dB Attn	dB	<1.2
Polarization Dependent Loss[1] (PDL)	Up to 20dB Attn	dB	<0.35
Response Time[2]		mSec	<10
Polarization Mode Dispersion (PMD)		pSec	<0.05
Return Loss		dB	>50
Temperature Dependent Loss (TDL)	at 0dB Attn	dB	<0.2
	at 20dB Attn		<1.5
Drive Voltage		VDC	<20
Power Consumption		W	$<1' 10^{-9}$
Operating Temperature		°C	-5~70
Storage Temperature		°C	-40~85
Fiber Type			SMF-28
Hermeticity		$Atm.cm^3/s$	$<10^{-7}$
Package Dimension		mm	5.6 dia, 26 L
Telcordia Specs			GR-1209-Core , GR-1221-Core

1. Over temperature and wavelength range.
2. 10%-90% response in open loop for the 19-Volt model. Other models have different response times.

253 Fuxin East Road, Fuzhou, Fujian 350014 P.R. China Tel: +86-591-83610157/83610592
Fax: +86-591-83610136 E-mail: contact@photoptech.com www.photoptech.com/koncent

Order Information:

MVOA - X - X - XX - XX
A B C D

A	Operating Wavelength	C=C Band
		L=L Band
B	Type	B=Blocking
		N=Non-Blocking
C	Driving Voltage	05=5 Volts
		07=7 Volts
		11=11 Volts
		19=19 Volts
		XX=Custom
D	Connector	NN=W/O connector
		XY=With connector[2]

1. Other customized MEMS VOA is also available
2. Please specify the type of connector as below when ordering.

Mechanical Type	Other	SC	FC	ST	MU	LC
X	0	1	2	3	4	5
Physical Contact Type	Other	PC	UPC	APC		
Y	0	1	2	3		

253 Fuxin East Road, Fuzhou, Fujian 350014 P.R. China Tel: +86-591-83610157/83610592
Fax: +86-591-83610136 E-mail: contact@photoptech.com www.photoptech.com/koncent