

Multi-Channel VOAs

Optical materials, Devices & Technical services

04

ChemOptics



Description

ChemOptics multi-channel VOAs are compact variable optical attenuators that provides low insertion loss, small footprint and extremely high reliability. Based upon polymer planar lightwave circuit (PPLC) technology and unique operating principle, it delivers wide dynamic attenuation range with low power consumption. Natural expansion into multi-channel VOA is also available. With outstanding features and excellent price-performance ratio, it provides special advantages in metro and DWDM networks.

Model Number

- 8ch VOA: VA08
- 10ch VOA: VA10

Features

- Low insertion loss
- Low PDL
- Low power consumption
- High reliability (no moving part)
- Wide dynamic range
- Insensitive to vibration and shock
- Optical integrated circuits

Applications

- Power equalization in WDM system
- Overload protection
- Channel ON/OFF switching
- Mux/Demux module
- OADM

Optical Specifications

Parameter	Specifications
Number of Channels	8/10
Operation Wavelength [nm]	1528 ~ 1610 [C & L band]
Insertion Loss [dB]	1.2
Dynamic Range [dB]	> 25
PDL [dB] (@0~10dB)	< 0.4
Optical Return Loss [dB]	> 45
Optical Crosstalk [dB]	> 40
Thermal Crosstalk [dB] (@15dB)	< 0.1
Chromatic Dispersion [ps/nm]	< 1.0
PMD[ps]	< 0.1
Response Time [ms]	< 10
Maximum Optical Power [mW]	200

- With no connectors
- Specifications are subject to change at any time at the sole discretion of the company

Electrical & Mechanical Specifications

Parameter	Specifications	
Driving Voltage [V] (@20dB)	< 1.3	
Power Consumption [mW/ch] (@20dB)	< 15	
Power Consumption [W] (with TEC)	< 1	
TEC	Q max [W]	3.4
	I max [A]	2
	V max [V]	3.2
	ΔT [°C]	> 70
Thermistor Resistance [k Ω] (@25°C)	10	
Operating Temperature [°C]	0 ~ 70	
Storage Temperature [°C]	-40 ~ 85	
Fiber Type	SMF-28, 900 μ m or Pure Access	
Dimensions [L x W x H, mm]	70 x 19 x 8.6	

Outline Dimensions and Pin Configurations

Unit : mm

