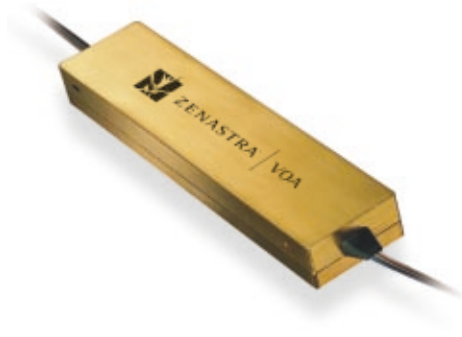


# VOA

Zenastra designs and manufactures optical circuits for DWDM systems. We deliver high volume optical component integration that improves system flexibility at reduced cost.



## Variable Optical Attenuator

The Zenastra VOA is used to attenuate optical signals. Based on the thermo optic effect and using industry accepted silica-on-silicon technologies, Zenastra VOAs have no moving parts and are designed to meet Telcordia 1209/1221 specifications. The eight-channel VOA is an economical and more compact alternative to traditional single-channel optical attenuators.

## FEATURES

- Proven silica-on-silicon technology ensures consistent quality and high adherence to specifications
- Design for compliance with Telcordia 1209/1221 assures long term stability and reliability
- Less than 2 msec switching time
- Thermal activation with no moving parts delivers greater reliability and product lifespan
- Low profile design

## APPLICATIONS

- Metro, inter-office and long haul networks
- Channel balancing in DWDM systems
- Power protection of optical receivers
- EDFA gain/loss management



ZENAstra™

# VOA

Zenastra, headquartered in Ottawa, Canada, is a fast-moving start-up at the forefront of one of the high tech industry's hottest sectors – integrated optical circuits. Zenastra designs, manufactures, markets and supports integrated optical components and sub-systems for the high performance networking equipment that powers the optical Internet. We have developed a unique process that enables us to gain advantage and leadership in this booming global market.

## PRODUCT SPECIFICATIONS

Parameter	Specification	Unit
Operating Wavelength Range *	1525 – 1611	nm
Number of Channels per device	8, 10	
Dynamic Range	> 20	dB
Insertion Loss	1.5 Typical 2.3 Maximum	dB
Spectral Flatness up to 9dB attenuation	< 1	dB
Return Loss	> 50	dB
Polarization Dependent Loss at 0dB attenuation	< 0.3	dB
Response Time	< 2	ms
Maximum Electrical Power (per channel)	< 250	mW
Operating Temperature	0 to 70	°C
Storage Temperature	-40 to +85	°C
Dimensions	110 x 25 x 12.5	mm
Fiber Pigtail	1	m

Specifications do not include connectors.  
All specifications subject to change without notice.

\* Customer Specific.



### ZENAstra

Zenastra Photonics Inc.

2305 St. Laurent Boulevard Ottawa, Ontario, Canada K1G 4J8 Voice 613•736•8777 Fax 613•731•4558  
www.zenastra.com

SPC 500000017 REV 02 JULY 2001