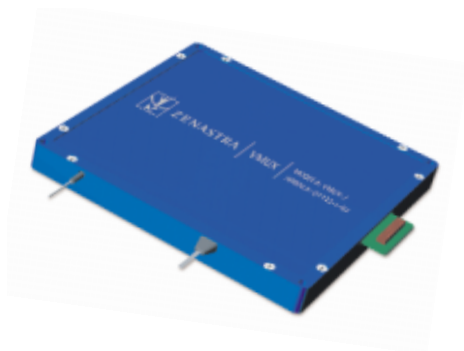


# VMUX

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



## Integrated Multiplexer + Variable Optical Attenuator

The Zenastra VMUX8 is the first in a series of integrated AWG and VOA products to deliver increased functionality and performance. The VMUX is used when wavelength multiplexing/ demultiplexing is required in conjunction with the need to independently power-balance the various channels. The VMUX provides flat top characteristics across a wide dynamic range of attenuation. Using industry accepted silica-on-silicon technologies and designed to meet Telcordia 1209/1221 specifications, Zenastra VMUXs provide the superior performance and stability required for today's advanced data networks.

## 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
- Integrated AWG and VOA design exploits inherent performance and total cost of ownership advantages
- Stable thermal characteristics deliver predictable device performance

## APPLICATIONS

- Metro and high-end access and inter-office DWDM implementations where reduced footprint, system costs and increased performance are required



ZENAstra™

# VMUX

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.

## PRELIMINARY SPECIFICATIONS

Parameter	Specification	Unit
Operating Wavelength Range *	1525 – 1565	nm
Number of Channels	16	
Channel Spacing	100	GHz
Insertion Loss (Mux/DeMux)	< 10.5	dB
Insertion Loss Variation	< 1.5	dB
Dynamic Range	> 20	dB
Return Loss	> 40	dB
Polarization Dependent Loss (@0dB)	< 0.6	dB
1-dB Bandwidth (Mux/DeMux)	> 50	GHz
Adjacent Channel Isolation	> 25	dB
Non-Adjacent Isolation	> 30	dB
Electrical Power Consumption	< 24	W
Operating Temperature	-5 to 70	°C
Storage Temperature	-40 to +85	°C
Dimensions (L x W x H)	160 x 60 x 12.5	mm
Fiber Pigtail	1	m

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

\* Customer Specific.



**ZENAstra**

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