

# DVOA

## DIGITAL VOA

SERIES 2000

HIGH PERFORMANCE FOR THE MOST  
DEMANDING NETWORK REQUIREMENTS

### **DIGITALLY CONTROLLED VARIABLE OPTICAL ATTENUATOR**

PARAMETER	SPECIFICATION
Optimized wavelength range	1530 to 1570 nm (C-band version)
Attenuation range	30 dB minimum
Attenuator resolution <sup>1</sup>	0.05 dB
Insertion loss <sup>2</sup>	1.0 dB maximum
Wavelength dependence of attenuation <sup>3</sup>	0.3 dB maximum
Polarization dependent loss <sup>3</sup>	0.15 dB maximum
Polarization mode dispersion	0.05 ps maximum
Return loss	45 dB minimum
Drive power	100 mW
Response speed <sup>4</sup>	100 $\mu$ s typical
Fiber type	SMF-28
Maximum optical power	500 mW
Package size (H x W x L)	10 mm x 12.5 mm x 35 mm
Operating temperature	-5° to 70°C
Storage temperature	-40° to 85°C

1. 0-20 dB

2. Excluding connectors

3. For attenuation up to 10 dB over the optimized wavelength range

4. 0 to 90% rise/fall time

### **KEY FEATURES**

- I<sup>2</sup>C Digital interface
- 5 Volt operation
- Linear transfer function
- High speed
- Hermetically sealed MEMS chip
- Low loss, low WDL, low PDL
- PCB mountable

### **APPLICATIONS**

- Power control and equalization in multichannel systems
- Subcarrier modulation
- Fast switching

*Dynamic MEMS Components  
for Optical Networks*



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