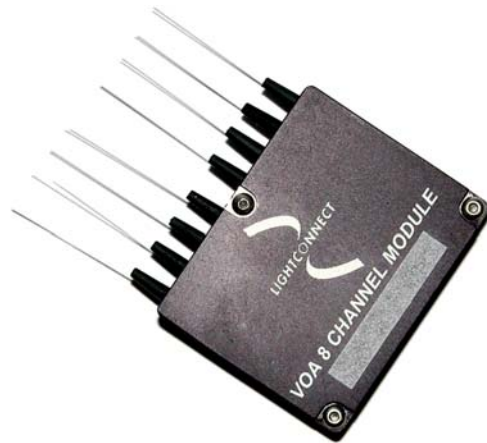


## **MEMS VOA Module**

*Eight Independent Channels in One Compact Package*

### **Features**

- Very compact footprint
- Low loss and low PDL
- Highly reliable, no hysteresis
- Hermetically sealed MEMS chip
- Insensitive to shock and vibration
- Low power consumption
- Bright or dark configuration



### **Applications**

- Power control and equalization
- Channel on/off switching
- Mux/Demux modules
- OADM

### **General**

Designed with industry standard requirements for optical performance, physical size and electrical drive, this FVOA module is ideally suited for network system suppliers that require flexibility to interchange VOA modules from multiple suppliers without changing their PC board designs.

## Performance Specifications

| PARAMETER  | SPECIFICATION               |
|--|-----------------------------|
| Wavelength Range   | C-Band / L-Band             |
| Attenuation Range  | 40 dB                       |
| Attenuation w/o power  | Bright or dark              |
| Attenuation Resolution   | Continuous                  |
| Insertion Loss <sup>1</sup>  | 0.8 dB (0.4 dB typical)     |
| Polarization dependent loss <sup>2</sup>   | 0.25 dB (0.14 dB typical)   |
| Return Loss  | 45 dB                       |
| Control voltage <sup>3</sup>   | 4.5 V / 6.5 V               |
| Supply voltage <sup>4</sup>  | 5V                          |
| Drive power  | 100 mW                      |
| Fiber type   | SMF-28 or equivalent        |
| Maximum optical power  | 500 mW per channel          |
| Operating temperature  | -5° to 70° C                |
| Package size   | 48 mm x 39 mm x 8.6 mm      |
| Wear out   | >100 billion cycles minimum |
| Reliability  | Telcordia GR-1209, GR-1221  |
| 1. Valid over temperature and wavelength range, excluding connectors<br>2. For attenuations up to 10dB over temperature and wavelength range<br>3. Maximum DC voltage for full attenuation range<br>4. Other supply voltages available |                             |