

Variable Optical Fiber Attenuators

Type: PVA-MO

Electronically driven all-fiber, high performance, wide bandwidth range of variable attenuators.



FEATURES:

- Fully integrated driver
- Low Insertion Loss
- Low PDL and PMD
- High reliability, no moving parts
- Any single channel between 1280-1625nm
- C and L Band
- Extremely low back reflection
- All-fiber configuration
- PCB mountable package
- Simple driver circuit - no TEC
- Built for Telcordia GR-1221

APPLICATIONS:

- Metro and Long Haul
- Receiver power level control
- Source power level control
- Gain control for optical amplifiers
- DWDM Systems
- Channel level balancing
- Optical fiber system R&D
- Test & Measurement
- 'Plug and Play'

ProtoDel's variable attenuators allow more flexible System Engineering design, providing a range of attenuation levels and packaging options combined with the benefits derivable from an all-fiber design, including: virtually zero reflection, long term reliability, design flexibility and reduced cost.

This model comprises the basic miniature VOA with thermistor and driver circuit, ready for immediate 'Plug and Play' use.

ProtoDel attenuators can be supplied for continuous attenuation variation up to -70dB and operate in any single channel within the fiber operating range of 1280 - 1625nm. The devices are supplied in a compact PCB mountable package for OEM applications. Various other configurations are also available, including:

- OEM component suitable for circuit level integration.
- Most fiber types, including polarization maintaining, are available.

Customisation - design flexibility to meet your specific application - multi-pack, high power, high attenuation and more. The basic and underlying technology is very flexible and can be adapted to other performance specifications. Furthermore, ProtoDel Integrated Fiber and evanescent field components can be integrated to create high performance, cost effective components, modules and sub-modules for specific applications. Please contact ProtoDel direct or visit our web site at www.protodel.com for further information.



SPECIFICATIONS:

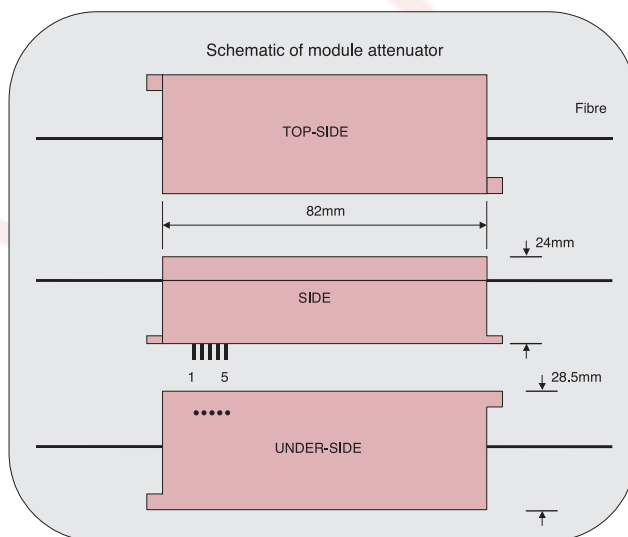
| | | |
|-----------------------------|-------|-------------------------------------|
| Wavelength | nm | 1280 - 1625 |
| Attenuation range | dB | 0->30, 0->50, continuous |
| Insertion loss (inc. PDL) | dB | <0.4 (at minimum attenuation) |
| Polarization dependent loss | dB | <0.1 (at minimum attenuation) |
| WDL (1530-1610 nm)* | dB/nm | 0.0025 (@ 0 dB) - 0.175(@ 30 dB) |
| TDL(0 - 70°C)* | dB/°C | 0.005 (@0 dB) - 0.150 (@ 30 dB) |
| Resolution | dB | <0.01 |
| Attenuation (non-powered) | dB | >20 (typical) |
| Maximum input power | dBm | 20 (higher powers - please discuss) |
| Response time (@ 25°C)* | secs | <10 (30-0 dB) <20 (0-30 dB) |
| Operating temperature | °C | -5 to70 |
| Power supply | | +12V/400mA, -12V/50mA |
| Back reflection | dB | <-70dB |

*Note: Please see design and application notes for definitions.

PACKAGING STYLES:

All dimensions are approximate and may vary slightly.

24.0x82.0x28.5 mm box. Connection via 5 pin 0.1" spacing connector.



| PIN | Function |
|-----|------------------------|
| 1 | N/C |
| 2 | GND |
| 3 | +12V |
| 4 | -12V |
| 5 | Control Voltage (0-5V) |

The devices can be tailored to meet most application requirements, please contact our technical design team to discuss specific requirements.

Ordering information:

