Voltage Pulse-Controlled Variable Optical Attenuator Standard VCVOA High Power VCVOA

STANDARD VCVOA

▼ Features

- Wide operating wavelength
- High reliability
- Latching capability
- Potentiometer feedback to monitior
- Wide attenuation range
- High attenuation resolution
- Mountable on printed circuit board



Applications

- Gain-tilt control in optical amplifers
- Used between stages of Raman Amplifier as "gain" block
- Balance laser signal into DWDM networks
- Power equalization in multi-channel optical networks

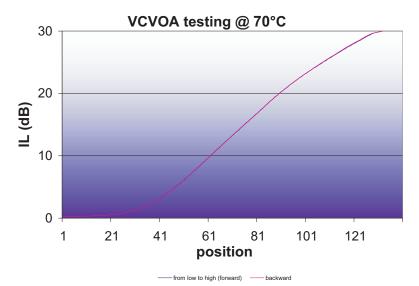


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| | Specifications |
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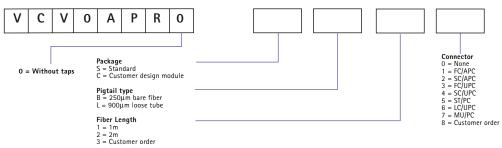
| Min | Typical | Max | |
|--------------------------------------|--------------------------------------|--|--|
| 1480 | | 1620 | |
| | | 250 | |
| 0.35 ~ 30 | | | |
| | | 0.1 | |
| | | 0.1 | |
| | | 0.35** | |
| 0.2 (reference to attenuation @23°C) | | | |
| | 0.2 | | |
| | | 0.05 | |
| | | 0.02 | |
| 55 | 60 | | |
| | | 100 | |
| | | 0.08 | |
| | | 0.15 | |
| (W)25X(H)12X(L)50 | | | |
| -5 | | 70 | |
| -20 | | 80 | |
| Corning SMF-28 | | | |
| 8.5K | 10K | 11.5K | |
| | 1480 0.35 ~ 30 55 -5 -20 | 1480 0.35 ~ 30 0.2 (reference to attenuation @23°C) 0.2 55 60 (W)25X(H)12X(L)50 -5 -20 Corning SMF-28 | |

^{*}other wavelength available.

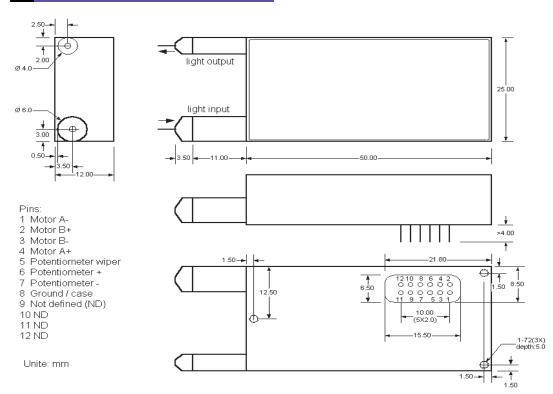
^{**}without monitoring tap and not including IL of connectors.



Ordering Information



Configurations and Interface



HIGH POWER VCVOA

Features

- High reliability
- Latching capability
- Potentiometer feedback to monitior
- Wide attenuation range
- High attenuation resolution
- Mountable on printed circuit board



Applications

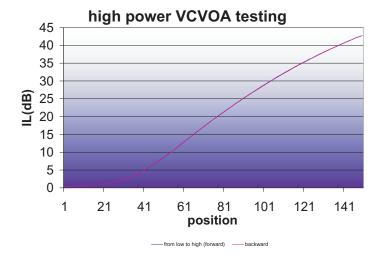
- Gain-tilt control in optical amplifers
- Used between stages of Ranab Anplifier as "gain" block
- Used between stages of EDFA as a constant "gain" block
- Balance laser signal into DWDM networks
- Power equalization in multi-channel optical networks



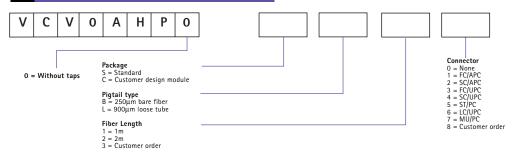
Specifications

| | Min | Typical | Max | |
|--|---------------------|-----------------------------------|------|--|
| Wavelength range (nm) | 1480+/-30;1550+/-40 | | | |
| Input optical power (mW) | | | 5000 | |
| Attenuation range (dB) | 0.4 ~ 40 | | | |
| Attenuation resolution (dB) | | | 0.12 | |
| Residual attenuation (dB) | | | 0.1 | |
| Minimum insertion loss (dB) | | | 0.4* | |
| Temperature dependence of attenuation (dB) | 0 | .2 (reference to attenuation @23° | C) | |
| Polarization dependent loss (dB) | | | 0.05 | |
| Polarization mode dispersion (ps) | | 0.02 | | |
| Return loss (dB) | | 50 | | |
| Response speed (ms) | | | 100 | |
| Repeatability of attenuation setting dB) | | 0.08 | 0.1 | |
| Backlash in attenuation setting (dB) | | | 0.15 | |
| Dimensions (mm) | | (W)26X(H)12X(L)50 | | |
| Operating temperature (°C) | -5 | | 70 | |
| Storage temperature (°C) | -20 | | 80 | |
| Fiber type | Corning SMF-28 | | | |
| Potentiometer resistance (Ohm) | | 10K | | |
| | | | | |

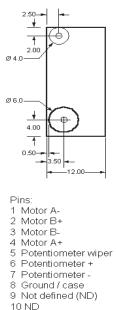
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Ordering Information

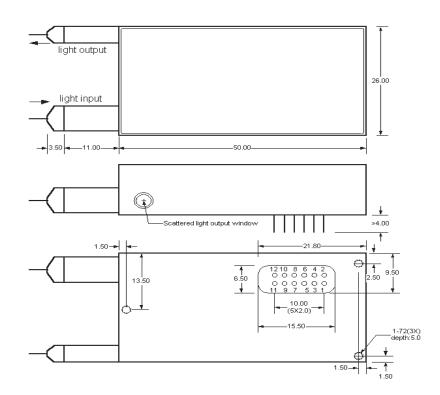


Configurations and Interface



- 10 ND 11 ND
- 12 ND

Unite: mm



Notes