

**F** Fast Axis

# GP850 MEMS VARIABLE OPTICAL ATTENUATOR

## Polarization Maintaining MEMS VOA Slot Card

### OPTICAL SPECIFICATIONS<sup>1</sup>

|                            |                       |                          |
|----------------------------|-----------------------|--------------------------|
| Operating Wavelength       | 1260 to 1680 nm       |                          |
| Excess Loss <sup>2</sup>   | 0.6 dB max.           |                          |
| WDL <sup>3</sup>           | 0 to 1 dB             | 0.3 dB max. <sup>4</sup> |
|                            | 1 to 5 dB             | 0.5 dB max. <sup>4</sup> |
|                            | 5 to 10 dB            | 0.6 dB max. <sup>4</sup> |
|                            | 10 to 20 dB           | 1.0 dB max. <sup>4</sup> |
| PER <sup>5</sup>           | 16 dB min.            |                          |
| Back Reflection            | -50 dB max.           |                          |
| Response Time <sup>6</sup> | 2 ms max.             |                          |
| Repeatability <sup>7</sup> | 0.1 dB max.           |                          |
| Durability <sup>8</sup>    | 1 Billion Cycles min. |                          |
| Optical Power <sup>8</sup> | 500 mW max.           |                          |
| Fiber Type                 | Panda PM              |                          |

- 1. All specifications are measured separately at room temperature for each Test Wavelength
- 2. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
- 3. WDL is defined within Test Wavelength  $\pm 20$  nm
- 4. O-band adds 0.1 dB
- 5. PER is defined with connectors; PER without connectors is 18 dB minimum
- 6. Optical transition time; the actual processing delay to execute the attenuation command is longer
- 7. Repeatability is defined within 100 cycles
- 8. Met by design, not measured

### ENVIRONMENTAL SPECIFICATIONS

|                       |                       |
|-----------------------|-----------------------|
| Operating Temperature | 0 to 50°C, < 85% RH   |
| Storage Temperature   | -40 to 70°C, < 40% RH |

### MECHANICAL SPECIFICATIONS

|             |          |
|-------------|----------|
| Slot Width  | 37.8 mm  |
| Slot Depth  | 487.6 mm |
| Slot Height | 146 mm   |

