

# WaveWalker™ 2x2 OPTICAL SWITCH

## BENEFITS

- No moving parts for optimal system reliability
- Billion-cycle durability for decades of use
- Stable insertion loss for increased system stability
- Nonstick performance for dependability
- Fast cycle rate for high throughput



The WaveWalker™ 2x2 Optical Switch has no moving parts, enabling billion-cycle durability, nonstick performance, and immunity from vibration-induced performance degradation. Bidirectional, nonblocking signal paths, nonstick reliability, and fast switching speed provide solid performance for reconfiguration and network protection.

## APPLICATIONS

- Network reconfiguration
- Network protection and restoration
- Optical add/drop multiplexers

SpectraSwitch's proprietary technology leverages 30 years of proven liquid crystal performance and manufacturability, an evolution in technology that assures dependable, highly reliable fiber optic components. These devices have an epoxy-free optical path and a construction that is insensitive to vibrations commonly affecting mechanical devices. Please contact us today with your switch requirements.

*Smart Products for Optical Communications*



# WaveWalker™ 2x2 OPTICAL SWITCH

## SPECIFICATIONS

|                               |               |
|-------------------------------|---------------|
| Insertion loss                | <1.0 dB       |
| Insertion loss stability      | +/-0.08 dB    |
| Nominal crosstalk             | -40 dB        |
| Polarization dependent loss   | 0.1 dB        |
| Return loss                   | 45 dB         |
| Operating temperature         | -5° to 70°C   |
| Nominal switching time        | 4 msec        |
| Maximum switching rate        | 100 Hz        |
| Dark time <sup>1</sup>        | 0 µsec        |
| Maximum input optical power   | 300 mW        |
| Storage temperature           | -40° to 75°C  |
| Humidity (noncondensing)      | 90% RH @ 60°C |
| Durability                    | 1000 M cycles |
| Dimensions <sup>2</sup>       | 100x25x9 mm   |
| Wavelength range <sup>3</sup> | C band        |
| Bidirectional                 | Yes           |
| Fiber type                    | SM            |
| Power supply                  | +/-12 Vdc     |
| Control                       | TTL           |

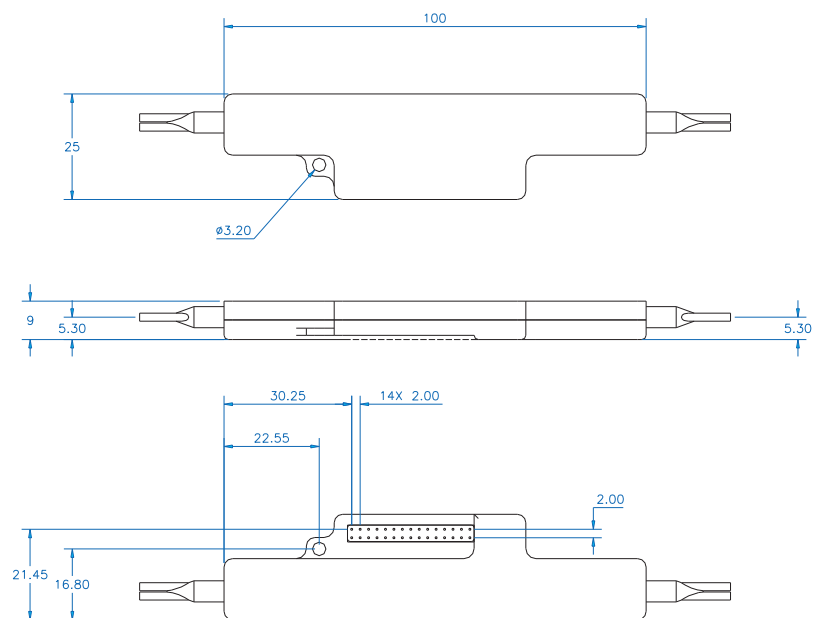
<sup>1</sup> Time that signal is lost during switching operation

<sup>2</sup> Not including driver electronics

<sup>3</sup> Optimization available

- ☐ Connectorization available
- ☐ Manufactured in the USA

## DIMENSIONS



## NONBLOCKING DESIGN

