



WaveWalker™ 1x2 Optical Switch

Release 2.2

Preliminary Data Sheet

SPECIFICATIONS

Network performance monitoring in the optical domain is a fundamental application in optical networking. Reliability and repeatability, as well as long-term durability, are key to cost-effective implementations. The SpectraSwitch WaveWalker™ 1x2 Optical Switch is specifically designed to provide breakthrough performance in these applications.

The switch is bidirectional and, in 2x1 mode, is perfectly suited for channel monitoring. SpectraSwitch WaveWalker switches provide the robustness of liquid crystal technology, and are designed to last through billions of cycles with stable optical performance in a compact, low-power package.

Designed for Telcordia GR-1221-CORE compliance (testing is currently in process), WaveWalker switches are targeted for applications in carrier grade systems. The smart optical platform allows adaptation to multiple system specifications, while a product roadmap featuring increasing scale and integration ensures that the component evolves with the application.

Insertion loss (typical)	< 1.0 dB
Insertion loss (maximum) ¹	< 1.3 dB
IL stability (-5°C to 70°C)	+/- 0.1 dB
Crosstalk	< -50 dB
Polarization dependent loss	< 0.2 dB
PDL (typical)	< 0.08 dB
Return loss	> 50 dB
Switching time (nominal)	5 msec
Switching rate (maximum)	100 Hz
Bidirectional	Yes
Durability	>> 1B cycles
Operating temperature	-5° to 70°C
Wavelength range ²	C-Band
Fiber type	SM
Input optical power	200 mW
Control interface	TTL level
Power supply	+/- 12 Vdc
Dimensions	55x18x10.7 (mm)
With controller board	63.5x25x15 (mm)

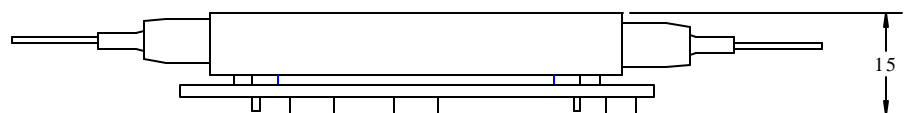
¹ IL = IL_o + ΔIL_T + ΔIL_{PDL} + ΔIL_λ

² L-Band Available

Connectorization available
Designed to meet GR-1221-CORE

APPLICATIONS

- Optical Performance Monitoring
- Channel Monitoring



DIMENSIONS

