

## FIBER-OPTIC SWITCH

### FOS Fiber-Optic Switch

The FOS Series Fiber-Optic Switch is a convenient way to connect up to eight lasers to a single fiber-coupled instrument, such as the wavelength meters and spectrum analyzers provided by Bristol Instruments.

The FOS Fiber-Optic Switch is a self-contained microelectromechanical (MEMS) switch that operates from 400 to 1700 nm. The switch is USB powered and controlled using a simple and intuitive PC application. Switching can be done manually, with the user selecting an appropriate channel. Or, switching can be done automatically by cycling through user specified channels.



### SPECIFICATIONS

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<b>SWITCH TYPE</b>	1 x 4 or 1 x 8
<b>WAVELENGTH RANGE</b>	400 - 1700 nm
<b>INTERNAL FIBER TYPE</b>	9 $\mu$ m core diameter (single-mode over 1260 - 1625 nm)
<b>CONNECTOR TYPE</b>	FC/UPC or FC/APC
<b>TYPICAL TRANSMISSION <sup>1</sup></b>	10 - 30% (400 - 600 nm) 30 - 40% (600 - 1700 nm)
<b>REPEATABILITY <sup>2</sup></b>	$\geq$ 0.01 dB
<b>POLORIZATION DEPENDENT LOSS <sup>2</sup></b>	$\geq$ 0.1 dB
<b>RETURN LOSS <sup>2</sup></b>	$\geq$ - 40 dB
<b>CROSSTALK <sup>2</sup></b>	$\geq$ - 50 dB
<b>SWITCHING TIME</b>	$\geq$ 5 ms
<b>SWITCHING FREQUENCY</b>	$\geq$ 30 Hz
<b>LIFETIME</b>	$>$ 10 <sup>8</sup> cycles
<b>MAXIMUM INPUT POWER</b>	+20 dBm (100 mW)
<b>DIMENSIONS (H x W x D)</b>	2.5" x 5.5" x 9.0" (64 mm x 140 mm x 229 mm)
<b>WEIGHT</b>	2.5 lbs (1.1kg)
<b>POWER</b>	USB 2.0/500 mA
<b>INSTRUMENT INTERFACE</b>	Windows-based application via USB 2.0 or greater

(1) With 9  $\mu$ m core diameter external fiber

(2) Typical