

Fiber Optics

Passive Components

Collimation Packages

FiberBench

Optical Switches

Rackbox Systems

Connectors/
Termination Tools

Single Mode Fiber

Rare Earth Doped

Polarization
Maintaining Fiber

Photonic
Crystal Fiber

Multimode Fiber:
Graded Index

Multimode Fiber:
Step Index

Plastic Optical Fiber

1x2 and 2x2 MEMS Optical Switch Kits

The OSWxx Series Switch Kits include a MEMS optical switch with an integrated control circuit that includes a USB 2.0 interface for easy integration into your optical system. It is available as 1x2 or 2x2 MEMS modules with an operating wavelength of 488, 633, 780, 830, 980, or 1310nm. These bidirectional switches have low insertion loss and excellent repeatability. The switching mechanism is based on silicon MEMS technology, which ensures high reliability, provides exceptionally low crosstalk between channels, and is inherently very fast (switching time <1ms). The OSWxx switches are designed for the distribution and routing of signals at the indicated visible or near infrared wavelengths. The switches are controlled via an on-board pushbutton switch, a TTL toggle input

signal, or digitally via the USB 2.0 port. A seven segment LED displays the active channel.

By default, all switches are shipped without fiber connectors. Termination of the fibers is available upon request; please contact your local Thorlabs office or distributor for pricing. Additionally, 1x4 and 1x8 MEMS switch modules are available upon request.

The OSWxx Series requires a +5V DC supply voltage. The Thorlabs LDS1 power supply is an ideal choice and is listed in the tables below.

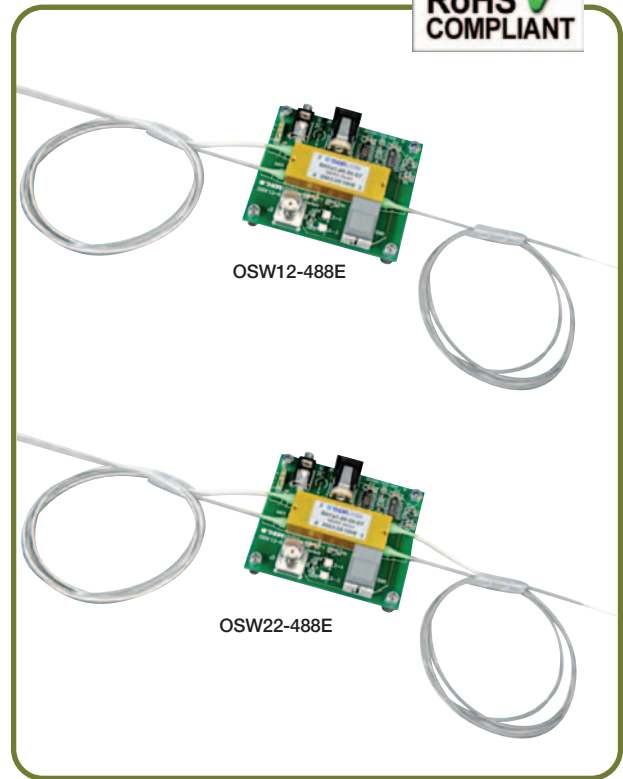
Specifications

- **Operating Wavelengths:** 488&514, 633&680, 780, 830, 980&1064, and 1310&1550nm
- **Switching Time:** 1ms, Max
- **Repeatability:** 0.001dB Max
- **Insertion Loss:** 0.7dB Typical
- **Crosstalk:** 75dB Typical
- **Back Reflection:** 55dB Typical
- **Polarization Dependent Loss:** 0.02dB Typical

Features

- **Switch Types:** 1x2, 2x2 (Optional: 1x4, 1x8)
- **USB Remote Control**
- Pushbutton Toggle Switch on Board
- TTL Input
- **Channel:** Indication by 7 Segment LED Display
- TTL Status Signals
- **Euro Size Card:** (100mm x 160mm) With Standard DIN 41612 Connector for Easy Integration Into 19" Systems
- **Power Supply:** 5VDC by Wall Adapter or via DIN 41612 Connector

RoHS
COMPLIANT



VIS/NIR MEMS 1x2 Switch Kits – FC/PC and FC/APC Connectors Available, Please Call

ITEM#	\$	£	€	RMB	DESCRIPTION
OSW12-488E	\$ 1,068.00	£ 672.80	€ 993,20	¥ 10,199.40	Electronic Controlled 1x2 Switch Module 488nm & 514nm
OSW12-633E	\$ 1,068.00	£ 672.80	€ 993,20	¥ 10,199.40	Electronic Controlled 1x2 Switch Module 633nm & 680nm
OSW12-780E	\$ 1,068.00	£ 672.80	€ 993,20	¥ 10,199.40	Electronic Controlled 1x2 Switch Module 780nm
OSW12-830E	\$ 1,068.00	£ 672.80	€ 993,20	¥ 10,199.40	Electronic Controlled 1x2 Switch Module 830nm
OSW12-980E	\$ 1,068.00	£ 672.80	€ 993,20	¥ 10,199.40	Electronic Controlled 1x2 Switch Module 980nm & 1064nm
OSW12-1310E	\$ 1,068.00	£ 672.80	€ 993,20	¥ 10,199.40	Electronic Controlled 1x2 Switch Module 1310nm & 1550nm
LDS1	\$ 81.40	£ 51.30	€ 75,70	¥ 777.40	5V Regulated Power Supply

VIS/NIR MEMS 2x2 Switch Kits – FC/PC and FC/APC Connectors Available, Please Call

ITEM#	\$	£	€	RMB	DESCRIPTION
OSW22-488E	\$ 1,188.00	£ 748.40	€ 1,104,80	¥ 11,345.40	Electronic Controlled 2x2 Switch Module 488nm & 514nm
OSW22-633E	\$ 1,188.00	£ 748.40	€ 1,104,80	¥ 11,345.40	Electronic Controlled 2x2 Switch Module 633nm & 680nm
OSW22-780E	\$ 1,188.00	£ 748.40	€ 1,104,80	¥ 11,345.40	Electronic Controlled 2x2 Switch Module 780nm
OSW22-830E	\$ 1,188.00	£ 748.40	€ 1,104,80	¥ 11,345.40	Electronic Controlled 2x2 Switch Module 830nm
OSW22-980E	\$ 1,188.00	£ 748.40	€ 1,104,80	¥ 11,345.40	Electronic Controlled 2x2 Switch Module 980nm & 1064nm
OSW22-1310E	\$ 1,188.00	£ 748.40	€ 1,104,80	¥ 11,345.40	Electronic Controlled 2x2 Switch Module 1310nm & 1550nm
LDS1	\$ 81.40	£ 51.30	€ 75,70	¥ 777.40	5V Regulated Power Supply