

OP725

Benchtop Optical Switch

Overview

The **OP725** is an optical switch for single mode or multimode applications available in a slim-line, half-rack enclosure. This optical switch is USB powered and incorporates the latest technology in high-speed switching. With high repeatability and low loss, the **OP725** is ideally suited for bidirectional testing.

Paired with our **OP940** Insertion & Return Loss Meter, operators can make quick work of measuring both ends of cables in a truly bidirectional manner.



Figure 1: Model OP725-SM-2x2 Benchtop Optical Switch



Figure 2: Model OP725-SM-2x2 paired with the OP940 IL/RL Meter

Bidirectional Testing

The **OP725** can be connected to the **OP940** via USB to allow control of bidirectional switching via the OP940's front panel controls or in **OPL-PRO** software.

It can also be used in more complex, multi-instrument configurations with other OptoTest instruments (for example, an **OP710**) and **OPL-MAX** / **OPL-LOG** software.

Features

- Compact, slim-line, fiber optic switch
- MEMS technology, high reliability, long life
- USB powered, no external power supply needed
- Bright OLED for channel display
- Interface to custom applications via OPL-SDK
- High-speed USB interface for communication
- 2x2 configuration streamlined for bidirectional testing
- Controlled directly from an OP940 via USB link, or by the computer via software.



Figure 3: OP940 ILRL Measurement Mode with direction switching functionality (A-B/B-A)

SPECIFICATIONS

OP725	Single Mode - SW	Multimode - SW
Channel Count	2x2 configuration only	
Internal Fiber	SMF28, 9/125	50/125 OR 62.5/125
Insertion Loss	<0.7dB*	
Repeatability	± 0.003dB	
Switching Time	10 msec via Software, 300 msec via OP940	
Crosstalk	>60dB	
Optical Interface	FC, SC (other upon request)	
Power	USB (less than 0.1A)	
Dimensions	8.5" x 1.75" x 12"	

* For 1310nm and 1550nm single mode, 850nm and 1300nm multimode.

Laser Classifications

All **OP940 Insertion Loss and Return Loss Test Sets** utilize a **Class I Laser Source**. Unless otherwise noted, all **OP250, OP715, and OP750** source units with internal laser sources utilize a **Class I Laser Source**. Unless otherwise noted, all **OP815 and OP850 Insertion Loss Test Sets** with internal laser sources utilize a **Class I Laser source**. All **OP280 Visual Fault Finder** units utilize a **Class III Laser Source**.

OptoTest strongly suggests that all necessary precautions be taken whenever any Class I or Class III laser source is used.

Specifications are subject to change, please confirm specific performance characteristics of the product at the time of ordering. All specifications are valid within temperature range of 18°C to 24°C unless otherwise noted. For additional specifications please contact OptoTest.