

# OSICS BKR

## VARIABLE BACK REFLECTOR



EXFO's OSICS BKR emulates reflectance from all optical interfaces within fiber optic systems. It is the perfect R&D tool for testing the effects of back reflection on transponder prototypes and stressing transmitters and receivers in PON/WDM systems.

SPEC SHEET

### KEY FEATURES

55 dB reflection range

Easy real-time operation

Single-slot module inside the OSICS platform

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### 55 dB reflection range

The OSICS BKR module integrates a variable reflector that can be set from 3 to 55 dB and operates throughout a large wavelength range. Its broad reflection range allows you to cover any setup with a single instrument.

### Easy real-time operation

The platform's user-friendly interface lets you adjust the reflectance in real time. Module reflectance can be read at any time on the OSICS front panel display.

### Single-slot module inside the OSICS platform

Take advantage of all OSICS platform features, including commands, hosting of up to eight modules (DFBs included), high-performance tunable laser sources and optical switches.

## APPLICATIONS

### Simulation of cumulated reflection from unmated connectors (PON, WDM systems)

The OSICS BKR boasts a large reflection range, allowing you to cover any setup with a single instrument.

### Component testing (transmitters, receivers, laser diodes, isolators, etc.)

Used with a bit-error-rate tester, the OSICS BKR allows you to test the return-loss sensitivity of individual components.

### Laser development and production

### OTDR testing



OSICS BKR module principle

## SPECIFICATIONS

	OSICS BKR
Wavelength range	1250 nm to 1650 nm on SMF 1240 nm to 1520 nm on PMF
Reflectance range	Up to 55 dB
Calibrated range	Up to 40 dB at 1310 nm and 1550 nm
Reflectance accuracy (typ.) <sup>a</sup>	±0.3 dB
Insertion loss (IL)	≤ 4 dB (3 dB typ.)
Reflection setting resolution <sup>b</sup>	0.1 dB (Display resolution: 0.01 dB)
Polarization-dependent loss	0.2 dB
Speed	0.1 second / 3 dB (typ.)
Maximum input power	0.2 W (+23 dBm)
Optical connectors	FC-APC on SMF-28 FC-APC on PMF PM13

All specifications are tested at 23 °C ± 2 °C; optical connector included.

## Notes

- a. Inside calibrated range and up to 20 dB  
b. From 1 dB to 10 dB; 0.1 dB for 10 dB to 40 dB

## ORDERING INFORMATION

OS-BKR-XX-58

## Wavelength range and fiber type

00 = 1250 - 1650 nm, SMF28 singlemode fiber

P = 1240 - 1520 nm, PM13 polarization maintaining fiber

## Connector

58 = FC/APC

Example: OS-BKR-00-58

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