

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

KEY FEATURES

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.) ^a | ±0.3 dB |
| Insertion loss (IL) | ≤ 4 dB (3 dB typ.) |
| Reflection setting resolution ^b | 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

EXFO Headquarters > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | www.EXFO.com

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

EXFO is certified ISO 9001 and attests to the quality of these products. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

For the most recent version of this spec sheet, please go to www.EXFO.com/specs.

In case of discrepancy, the web version takes precedence over any printed literature.