

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.

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)

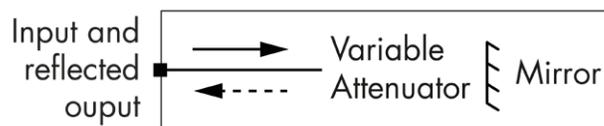
The OSICS BKR boasts a large reflection range, allowing you to cover any setup with a single instrument.

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

| | |
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| 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.

- 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

Example: OS-BKR-58

Connector

58 = FC/APC

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