

# OSICS BKR

## Variable Back Reflector

The OSICS BKR module integrates a variable reflector that can be set from 3 to 55 dB and operates throughout a large wavelength range.

The OSICS BKR emulates reflectance that normally occurs from all optical interfaces within fiber optic systems.

It is the perfect tool in R&D to test transponder prototypes and see how their operation is affected by undesired back reflection. It could also be used in large PON/WDM test-bed to stress transmitters and receivers in the system.

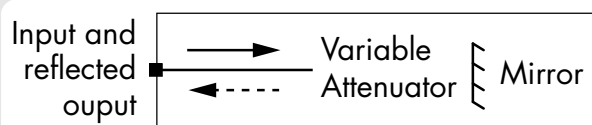
### Specifications

	OSICS BKR
Wavelength Range	1250-1650 nm
Reflectance Range	Up to 55 dB
Calibrated Range	Up to 40 dB at 1300 and 1550 nm
Reflectance Accuracy (typ.)*1	±0.3 dB
Insertion Loss	≤ 4 dB (3 dB typ.)
Reflection Setting Resolution*2	0.02 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

All specifications are tested at 23°C +/- 2°C; optical connector included.

\*1: Inside calibrated range and up to 35 dB.

\*2: From 1 to 10 dB; 0.1 dB for 10 to 40 dB.



OSICS BKR Module Principle

### Key Features

- **55 dB Reflection Range with 0.1 dB Resolution**

The large reflection range capability allows to adapt to any set-up with a single instrument.

- **Real-time and Easy Operation**

The platform user-friendly interface allows real-time adjustment of the reflectance. Each module reflectance can be read at any time on the OSICS front panel display.

- **Single-slot Module Inside the OSICS Platform**

You will benefit from all OSICS platform capabilities: remote commands, ability to host up to 8 modules including DFBs, high performance tunable laser sources, optical switches, etc.



### Applications

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

The large reflection range capability allows to adapt to any set-up with a single instrument.

- **Component testing (transmitters, receivers, laser diode, isolator, ...)**

Used with a bit-error-rate tester, it allows testing return loss sensitivity of individual components.

- **Laser development and production**

- **OTDR testing**

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Information and specifications are subject to change without notice  
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