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](Image)
### SPECIFICATIONS

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

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, SMF-28 singlemode fiber
  - P = 1240 - 1520 nm, PM13 polarization maintaining fiber
  - Connector 58 = FC/APC

Example: OS-BKR-58

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