OPTICAL REFLECTOR

- LC TYPE

- SC Type

OPTICAL REFLECTOR - Fibre Type

OPTICAL REFLECTOR
ABOUT US

WCFO is an industrial provider for optical fiber products and solutions of Telecom/Datacom. We provide the worldwide market with Easy/Green access optical fiber solutions, products and services.

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Optical Reflector

Applications

- Detection and maintenance of Passive Optical Network lines (applied to FTTx).

Optical Line Terminal

OLT (OTDR)

PSTN
Internet
CATV

ONU (FBG Reflector)
ONU (FBG Reflector)
ONU (FBG Reflector)

Passive Optical Splitter
Reflected Signal

Optical Network Unit
OPTICAL REFLECTOR

SC TYPE

SUS TUBE TYPE

LC TYPE

PERSISTENT QUALITY ASSURANCE AND EXCELLENT IN FIBER CONNECTIVITY

- DESIGN
- MANUFACTURE
- SERVICE
- INNOVATION
**Overview**

WCFO’s fiber bragg grating (FBG) reflector is a low-cost specific band reflector mounted on the optical network unit (ONU) side. It is used to reflect light pulses (1650 +/- 5nm) from the OTDR on the fiber line terminal (OLT) side while the working bands of the passive optical network (PON) are transmitted normally.

**Features**

- High stability and reliability
- Remove real-time detection
- Low insertion loss
- Easy connection for adapter structure
- Compliant with Telcordia GR-326-CORE,
  Telcordia GR-1221-CORE
- Compliant with RoHS
Optical Reflector

Specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass band wavelength range (nm)</td>
<td>1260~1625</td>
</tr>
<tr>
<td>Reflect band wavelength range (nm)</td>
<td>1645~1655</td>
</tr>
<tr>
<td>Insertion loss @ 1260nm-1360&amp;1460-1625nm (dB)</td>
<td>1.0</td>
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<tr>
<td>Insertion loss @ Reflect band (dB)</td>
<td>25</td>
</tr>
<tr>
<td>Return loss @ 1260nm-1360&amp;1460-1610nm (dB)</td>
<td>32</td>
</tr>
<tr>
<td>Return loss @ 1610nm-1625nm (dB)</td>
<td>25</td>
</tr>
<tr>
<td>Return loss @ Reflect band (dB)</td>
<td>1.0</td>
</tr>
<tr>
<td>Ripple in Reflection Band (dB)</td>
<td>0.6</td>
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<tr>
<td>Polarization Dependent Loss (dB)</td>
<td>0.4</td>
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<tr>
<td>Temperature Dependent Loss (dB)</td>
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<tr>
<td>Operating Temperature (°C)</td>
<td>-25 ~ 65</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5%~95%</td>
</tr>
<tr>
<td>Package Type</td>
<td>SC, LC Type</td>
</tr>
<tr>
<td></td>
<td>SUS Tube Type</td>
</tr>
</tbody>
</table>

Note: 1625/1550/1490nm FBG reflector is also available

Dimensions

- **SC Type**
  ![SC Type Diagram]

- **LC Type**
  ![LC Type Diagram]

- **SUS Tube Type**
  ![SUS Tube Type Diagram]