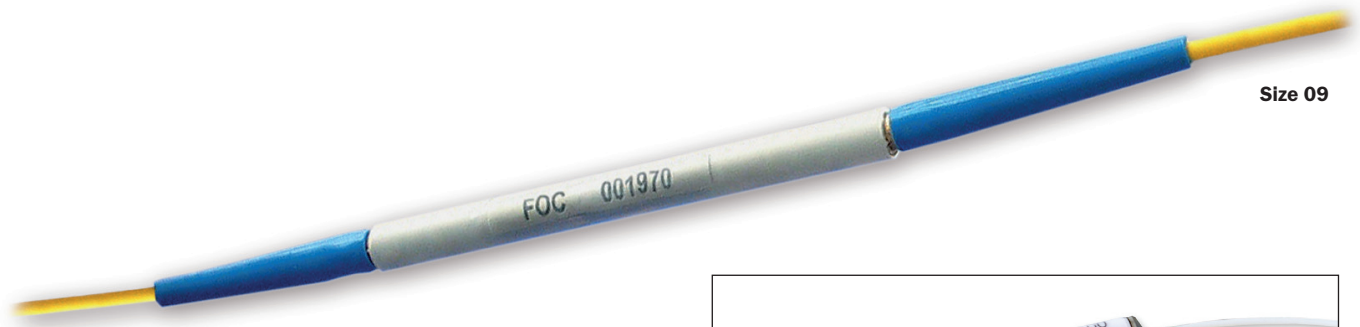


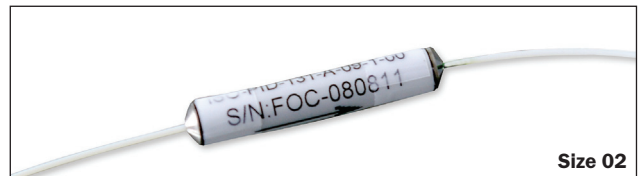


For a complete overview of components visit our website at www.foc-fo.com.

Components ▶ Filter ▶ Isolators ▶
Single- & Dual Stage Isolators



Size 09



Size 02

Isolators are direction-dependent passive optical components. They are used in fibre-optic transmission modules, transmission systems and other high-performance laser-based systems for protecting the lasers from backreflections.

Features

- High Isolation
- Low Insertion loss
- High Return Loss
- Epoxy-free optical path

Types

Isolators are available in single stage and dual stage versions.

Applications

- Fiber amplifier
- Public and private networks
- Measurement systems test equipment
- Optical transmission and monitoring systems

Models

- Different models are available with primary-coated fibres, with 900µm pigtailed and cable pigtailed
- Available without connectors or terminated with optical connectors

Size 02

Description	basic size
Type of fibre	SMF 28 E
Dimension	5,5 (∅) x 30 mm
Pigtail	primary-coated fibre 900µm

Size 09

Description	3 mm standard
Type of fibre	SMF 28 E
Dimension	9,0 (∅) x 80 mm
Pigtail	cable



Parameters of Single Stage Isolators

Parameter	Premium	Standard
Wavelength ⁽¹⁾ [nm]	1310 or 1550 or 1625	1310 or 1550 or 1625
Bandwidth ⁽¹⁾ [nm]	± 15	± 15
Max. Insertion Loss ⁽²⁾ [dB]	0,5	0,7
Min. Isolation [dB]	32	30
Min. Return Loss (In/Out) [dB]	65/60	60/55
Max. Polarization Dependent Loss [dB]	0,05	0,1
Max. Polarization Mode Dispersion [ps]	0,2	0,25
Temperature Range [°C]	Operation Storage	-20 to +70 -40 to +85
Power resistance [mW]	500	500

(1) Other wavelengths and/or bandwidths on request

(2) Without connector loss, includes polarization, temperature and wavelength dependence

Parameters of Dual Stage Isolators

Parameter	Premium	Standard
Wavelength ⁽¹⁾ [nm]	1310 or 1550 or 1625	1310 or 1550 or 1625
Bandwidth ⁽¹⁾ [nm]	± 15	± 15
Max. Insertion Loss ⁽²⁾ [dB]	0,6	0,8
Min. Isolation [dB]	50	45
Min. Return Loss (In/Out) [dB]	65/60	60/55
Max. Polarization Dependent Loss [dB]	0,1	0,15
Max. Polarization Mode Dispersion [ps]	0,1	0,15
Temperature Range [°C]	Operation Storage	-20 to +70 -40 to +85
Power resistance [mW]	500	500

(1) Other wavelengths and/or bandwidths on request

(2) Without connector loss, includes polarization, temperature and wavelength dependence

