

# SFC3- Circulator

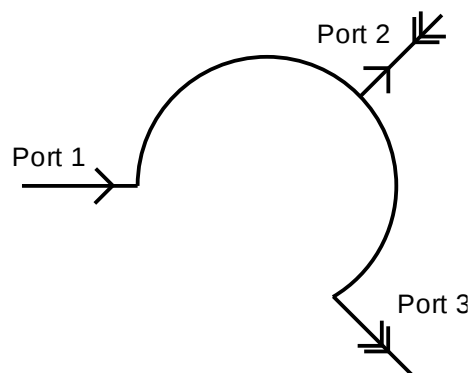
## Description:

The OPTOKON SFC3 polarization-insensitive fiber optic circulator is a compact, high-performance light wave component that routes incoming signals from Port 1 to Port 2, and incoming Port 2 signals to Port 3. This component provides high isolation, very low insertion loss, low polarization dependent loss (PDL), low polarization mode dispersion (PMD), and excellent environmental stability.



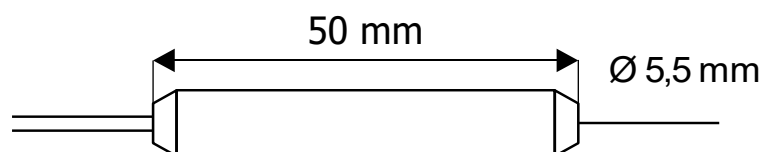
## Features:

- Very low insertion loss
- Broadband
- Low wavelength dependent loss
- Low temperature dependent loss
- High-power handling capability and reliability
- High isolation
- Compact cylindrical package
- Excellent environment stability



## Applications:

- Fiber amplifier systems
- Wavelength division multiplexing
- WDM add/drop
- WDM networks
- Bidirectional transmission systems
- Optical time domain reflectometer
- OTDR and sensing systems



## Technical specifications:

| Operating Wavelength Range (nm)   | 1310 ±30          | 1310 ±50 | 1550 ±30 | 1550 ±50 |
|-----------------------------------|-------------------|----------|----------|----------|
| Insertion Loss (dB) typ           | 0.60              | 0.80     | 0.60     | 0.80     |
| Insertion Loss (dB) max           | 0.80              | 1.00     | 0.80     | 1.00     |
| Isolation (dB) min                | 40                | 38       | 40       | 38       |
| Directivity (dB)                  | 50                | 50       | 50       | 50       |
| Polarization Dependent Loss (dB)  | <0.15             | <0.15    | <0.15    | <0.15    |
| Polarization Mode Dispersion (ps) | <0.10             | <0.10    | ≤0.10    | ≤0.10    |
| Return Loss (dB)                  | >50               | >50      | >50      | >50      |
| Max. Operating Optical Power (mW) | 500               |          |          |          |
| Fiber Length (m)                  | ≥1                |          |          |          |
| Operating Temperature             | -5 °C to + 70 °C  |          |          |          |
| Storage Temperature               | -40 °C to + 85 °C |          |          |          |
| Humidity                          | 0 to + 85 %       |          |          |          |
| Fiber Type                        | SMF-28e           |          |          |          |

All specifications are based on the devices without connectors, IL is 0.3 dB higher, RL is 5 dB lower, for connector added.

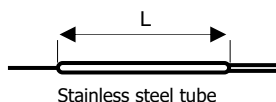
## Ordering Code:

| SFC3 |  | - | XX |  | - | XXX |  | - | NC |  |
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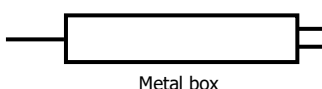
### package variants:

### Note:

1) Other λ combination on demand



BFS, LTS



CM1