

## SFC3- Circulator

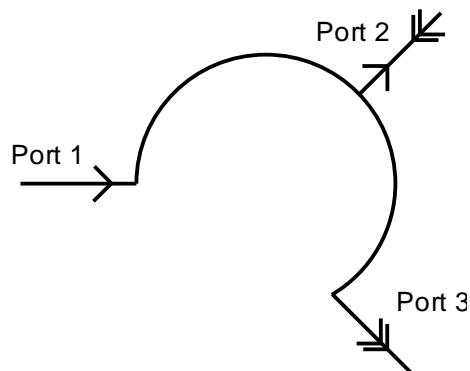
### Description:

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.



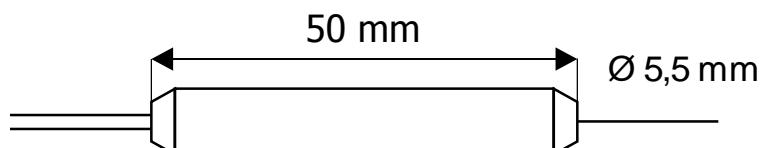
### Features:

- 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:**

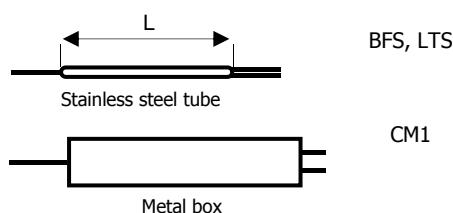
Operating Wavelength Range (nm)	1310 ±30	1310 ±50	1550 ±30	1550 ±50
Insertion Loss (dB) typ	0.60	0.80	0.60	0.80
Insertion Loss (dB) max	0.80	1.00	0.80	1.00
Isolation (dB) min	40	40	40	40
Isolation (dB) max	50	50	50	50
Directivity (dB)	50	50	50	50
Polarization Dependent Loss (dB)	<0.15	<0.15	<0.15	<0.15
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			

**Ordering Code:**

SFC3 - XX - XXX - NC
wavelength <sup>1</sup>
31      1310±30 nm
31E    1310±50 nm
55      1550±30 nm
55E    1550±50 nm
no input and output connectors connector type can be defined according to: CON_13-01 (Jumper Ordering Code) standard fiber/cable length = 1 m
package version I (basic type)
BFS      Fiber 250 µm, standard tube L= 50 x 5.5 mm
LTS      Fiber 0.9 mm, standard tube L= 50 x 5.5 mm
CM1      Cable type, metal box 100 x 15 x 9 mm
package version II (optional)
CAPM      OPTOKON cassette

**Note:**

1) Other λ combination on demand

**package variants:**


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