SFW series
2 channels WDMs

Description:

The SFW series introduces a range of 2 wavelength division multiplexing (WDM) devices for high data rate applications requiring high wavelength isolation with a low insertion loss. The SFW series WDMs are designed to divide and/or combine different optical wavelengths by combining innovative fused technology. The SFW series are operable additional to the standard transmission windows 1310/1550 nm in wide range of wavelength combinations. Available in a wide variety of packaging configurations, various types of pigtailing and connector terminations are available to meet your requirements.

SFW-C35-BFS-NC

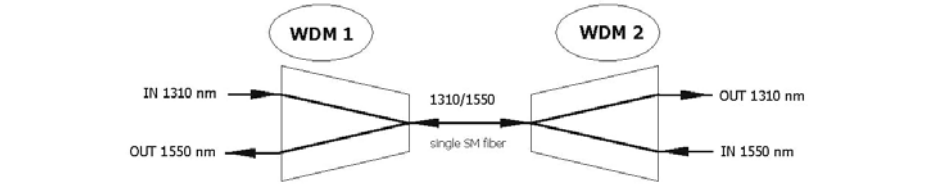
Applications:

- Telecommunications
- Data networks
- CATV
- Testing instruments
- RFTS
- Network monitoring

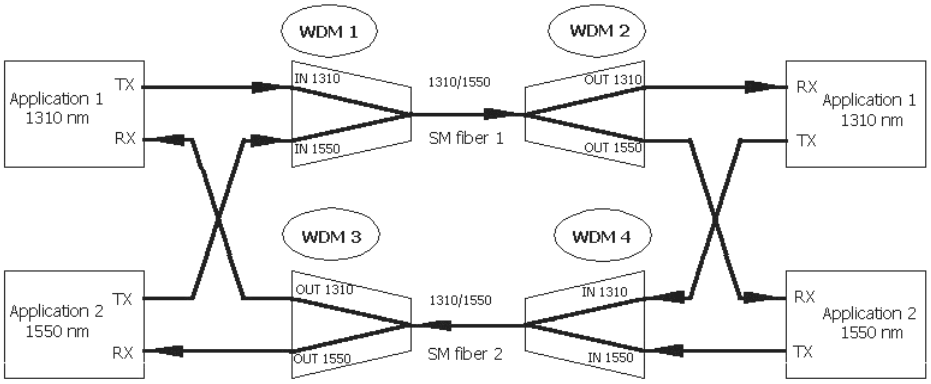
Features:

- High port isolation
- Custom defined specifications
- Low insertion loss
- Low polarization dependent loss
- Bi-directional transmission with high directivity
- Wide spectral channels
- Environmentally stable
- Wide range of packaging types

Typical applications:



One fiber



Pair of fibers

Technical specifications:

Polarization Dependent Loss, dB	≤ 0.1
Directivity, dB	> 55
Temperature Sensitivity (dB/°C)	≤ 0.002
Operating Temperature[1], °C	-40 to +85
Storage Temperature[1], °C	-55 to +85

Note: 1) Conditioned by the cable type

OPTOKON® is registered trademark of OPTOKON, a.s. Other names and trademarks mentioned herein may be the trademarks of their respective owners.
OPTOKON, a.s. reserves the right to make changes, without notice, to the products described in this document, in the interest of improving design, operational function and/or reliability.
OPTOKON, a.s. Cerveny Kriz 250, 586 02 Jihlava, Czech Republic
tel. +420 564 040 111, fax +420 564 040 134, WWW.OPTOKON.COM, INFO@OPTOKON.CZ

Wavelength combinations:

	Δ λ						Δ λ					
	120 nm	140 nm	160 nm				180 nm	200 nm	240 nm			
λ (nm)	1290/1410 1310/1430 1330/1450 1350/1470 1370/1490 1390/1510 1410/1530 1430/1550 1450/1570 1470/1590 1510/1625	1290/1430 1310/1450 1330/1470 1350/1490 1370/1510 1390/1530 1410/1550 1430/1570 1450/1590 1470/1610 1490/1625	1290/1450 1310/1470 1330/1490 1350/1510 1370/1530 1390/1550 1410/1570 1430/1590 1450/1610 1470/1625	bandwidth ±10 nm	IL ≤ 0.5 dB	Isolation ≥15 dB	1290/1470 1310/1490 1330/1510 1350/1530 1370/1550 1390/1570 1410/1590 1430/1610	1290/1490 1310/1510 1330/1530 1350/1550 1370/1570 1390/1590 1410/1610 1430/1625	1290/1530 1330/1570 1350/1590 1370/1610	bandwidth ±15 nm	IL ≤ 0.3 dB	Isolation ≥17 dB

Transmission parameters:

ITEM	WDMs			
Operating Wavelength, nm	1310/1550			1480/1550
Stage	C	D	E	C
Insertion Loss[1], dB	≤ 0.3	≤ 0.7	≤ 1.0	≤ 0.4
Isolation, dB	≥ 17	≥ 30	≥ 40	≥ 12
Bandwidth, nm	± 15			± 5

Note: 1) without connectors

Ordering Code:

SFW - XXX - XXX - NC-NC

grade	wavelength[1] (nm)
CXX standard	X**35** 1310/1550
DXX 2 stage	X**45** 1480/1550
EXX 3 stage	

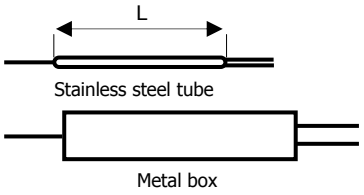
no input and output connectors
connector type can be defined according to:
CON_13-01 (Jumper Ordering Code)

standard fiber/cable length = 1 m

package version I (basic type)		package version II (optional)	
BFS	Bare fiber 250 µm, standard tube[2] L=54, Ø3 mm	**CAPM**	OPTOKON cassette
BFC	Fiber 0.9 mm, compact tube L=70, Ø4 mm	**SC**	splice cassette (TC251S-1X)
LTS	Fiber 0.9 mm, standard tube[2] L=54, Ø3 mm	**SA**	stand alone (plastic box)
FM1	Fiber type, metal box 100x15x9 mm	**RM**	Rack mounted unit (MCNP-1U)
CM1	Cable type, metal box 100x15x9 mm	**WM**	Wall mounted box (MPIC-4)
FM3	Fiber type, metal box 100x80x10 mm, stackable		
CM3	Cable type, metal box 100x80x10 mm, stackable		

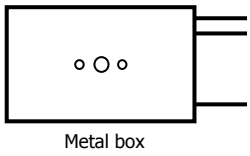
package variants:
SFW-C: BFS, BFC, LTS, FM1, CM1
SFW-D, E: FM3, CM3

Note:
1) Other λ combination on demand: 29/41 for 1290 and 1410 nm, etc.
2) Other tube dimensions on demand



BFS, BFC
LTS

FM1, CM1



FM3, CM3

Packaging options:

SFW-E35-CM3-NC

SFW-D47/59-CAPM-NE2S

2x SFW-D35-RM-NE2S

OPTOKON® is registered trademark of OPTOKON, a.s. Other names and trademarks mentioned herein may be the trademarks of their respective owners.
OPTOKON, a.s. reserves the right to make changes, without notice, to the products described in this document, in the interest of improving design, operational function and/or reliability.
OPTOKON, a.s. Cerveny Kriz 250, 586 02 Jihlava, Czech Republic
tel. +420 564 040 111, fax +420 564 040 134, WWW.OPTOKON.COM, INFO@OPTOKON.CZ