

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 pigtailed and connector terminations are available to meet your requirements.



SFW-C35-BFS-NC

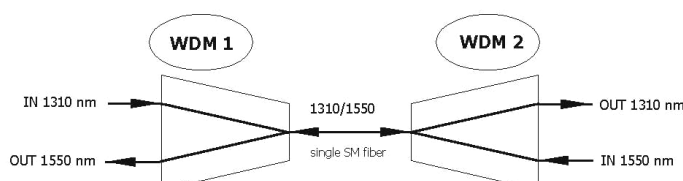
Applications:

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

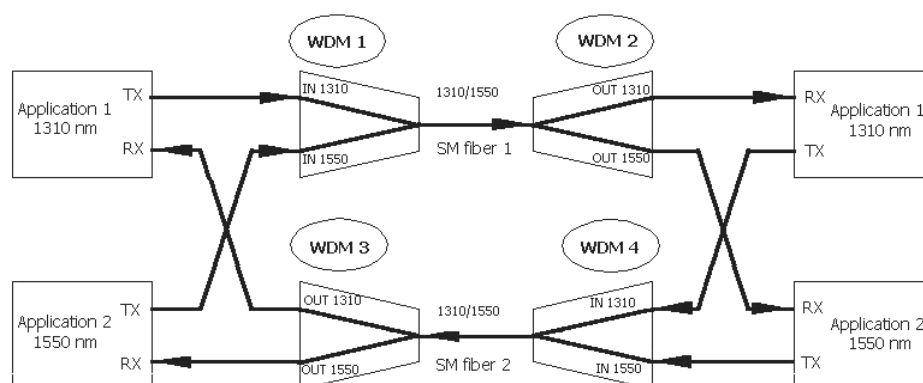
Features:

- 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

Principle diagrams:



One fiber



Two 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

1) Conditioned by the cable type

Wavelength combinations:

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

Transmission parameters:

	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

1) Without connectors

Ordering Code:

SFW - **Xyy, Xyy/yy¹** - **XXX(-XX)** - **NC-NC** **(-PM)³**

Grade - X Cyy - Standard Dyy - 2 Stage Eyy - 3 Stage	Wavelength (nm) - yy X35 = 1310/1550, X41/55 = 1410/1550 X45 = 1480/1550, X29/41 = 1290/1410 etc.	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 Bare fiber 250 μ m, standard tube ² L=54, $\varnothing$ 3 mm BFC Fiber 0.9 mm, Compact tube L=70, $\varnothing$ 4 mm LTS Fiber 0.9 mm, Standard tube ² L=54, $\varnothing$ 3 mm FM1 Fiber type, metal box 100x15x9 mm CM1 Cable type, metal box 100x15x9 mm FM3 Fiber type, metal box 100x80x10 mm, stackable CM3 Cable type, metal box 100x80x10 mm, stackable LGX LGX box (Customized by a client)		Package version II (Optional) CAPM OPTOKON cassette SC Splice cassette (TC251S-1X) SA Stand alone (Plastic box) RM Rack mounted unit (MCNP-1U) WM Wall mounted box (MPIC-4)

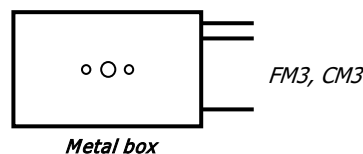
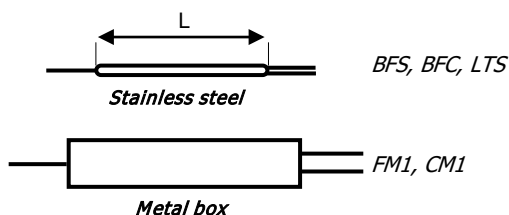
Package variants:

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

1) Other λ combination on demand

2) Other tube dimensions on demand

3) Polarization Maintaining fiber



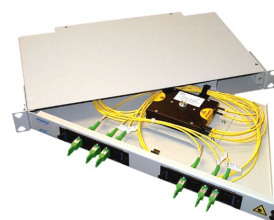
Packaging options:



SFW-E35-CM3-NC



SFW-D47/59-CAPM-NE2S



2x SFW-D35-RM-NE2S