SFT- S35-01xN, SFT- SWB-01xN Wavelength Independent Singlemode Dual Windows Wideband Couplers

Description:

OPTOKON SFT-SWB wavelength independent couplers/splitters are designed to transmit optical signals within the full CWDM wavelength spectrum. The SFT Couplers/Splitters are ultra reliable devices featuring low backreflection, low insertion loss, and high port isolation over wide ranges of temperature and wavelength. The SFT Couplers/Splitters are designed to divide and/or combine different optical signals in optical fiber systems. With its innovative Fused Technology process, the SFT series Couplers/Splitters have proven to provide exceptional characteristics for all applications demanding critical performance. The splitting ratio can be customer specified to meet your needs. Available in a wide variety of packaging configurations, these SFT series are operable in all 1310 nm 1550 nm and 1625 nm wavelength ranges. Various types of pigtailing and connector terminations are available to meet your requirements.

Features:

- Wavelength independent
- Low insertion loss
- High port isolation
- Custom defined specifications
- Environmentally stable

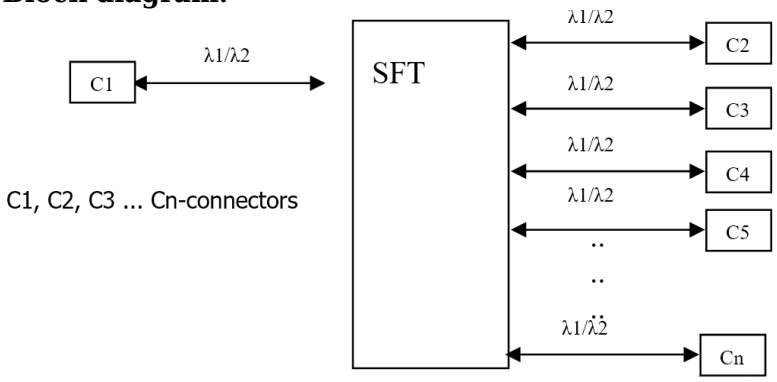
Specifications:

ITEM				
Operating Wavelength, nm	S35: 1310 ± 40 and 1550 ± 80 / SWB: 1250 – 1630 (CWDM wavelength range)			
Port Configuration	1 x 3	1 x 4	1 x 5	1 x 6
Grade	S	S	S	S
Maximal Insertion loss, dB	6.1	7.2	8.5	9.4
Uniformity, dB (SWB: for 1310 and 1550)	0.9	1.0 / 0.8	1.4	1.6
PDL, dB	0.3	0.3	0.3	0.4
Thermal Stability, dB/°C	0.003	0.003	0.003	0.003
Directivity, dB	> 50, > 70 on request			
Operating Temperature*, °C	-40 to +70			
Storage Temperature*, °C	-40 to +85			

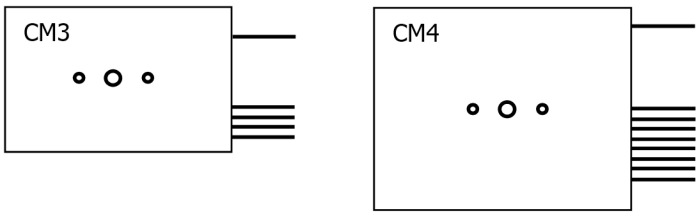
ITEM				
Operating Wavelength, nm	S35: 1310 ± 40 and 1550 ± 80 / SWB: 1250 – 1630 (CWDM wavelength range)			
Port Configuration	1 x 8	1 x 12	1 x 16	1 x 32
Grade	S	S	S	S
Maximal Insertion loss, dB	10.7	12.5	14.4	18.5
Uniformity, dB (SWB: for 1310 and 1550)	2.0 / 1.6	2.2	2.5	3.5 / 3.2
PDL, dB	0.5	0.6	0.6	0.8
Thermal Stability, dB/°C	0.004	0.005	0.005	0.006
Directivity, dB	> 50 standard, > 70 on request			
Operating Temperature*, °C	-40 to +70			
Storage Temperature*, °C	-40 to +85			

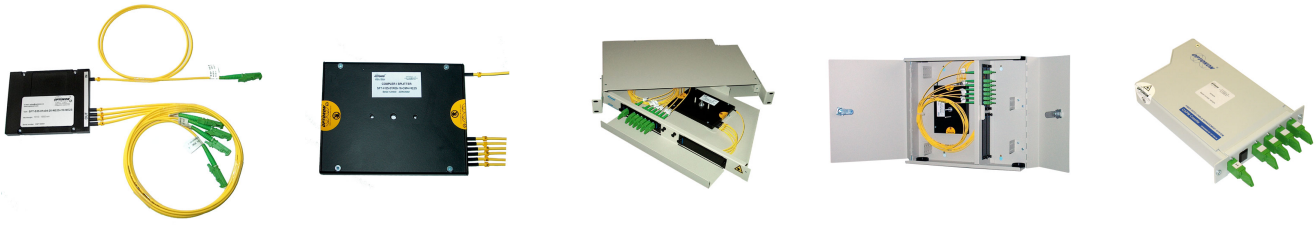
*) Conditioned by the cable type

Block diagram:



Packaging variants:





SFT-S35-01X04-25-CM3-NE2S SFT-S35-01X06-16-CM4-NC SFT-S35-01X06-16-RM-NE2S SFT-S35-01X06-16-WM-NE2S SFT-S35-01X04-25-CAPM-USC

Application:

- Fiber to the home
- Telecommunications
- Local area network
- CATV
- Fiber optic sensing
- Testing instruments

Ordering code:

SFT - XXX - 01 x N - XX - XXX - NC-NC

grade	wavelength
S35	1310/1550 nm
SWB1[1)]	1270 – 1620 nm

packaging type	port configuration
CM3, FM3	01X03, 01X04
CM4, FM4	01X05, 01X06, 01X08
CM5	01X09, ...01x32
CAPM	01X03, 01X04, 01X05, 01X06
SA, RM, WM	up to 01x32

1) tolerance: 01x02 50/50 ±0.35 dB (1370,1390,1410 nm IL increased for 0.2-0.3 dB)

01x04 ±0.70 dB (1370,1390,1410 nm IL increased for 0.4-0.6 dB)

01x08 ±1.40 dB (1370,1390,1410 nm IL increased for 0.8-1.2 dB)

01x16 ±2.80 dB (1370,1390,1410 nm IL increased for 1.8-2.2 dB)

port
01 x 03
01 x 04
01 x 05
01 x 06
01 x 08
01 x 12
01 x 16
01 x 32

2) other on request

ratio[2)]	
33	01 x 03
25	01 x 04
20	01 x 05
16	01 x 06
12	01 x 08
08	01 x 12
06	01 x 16
03	01 x 32

no input and output connectors
connector type:
-can be defined according to CON_14-01
(Jumper Ordering Code)

Note: standard fiber/cable length = 1 m

package option I	
FM3	Fiber type, metal box 100x80x10 mm
CM3	Cable type, metal box 100x80x10 mm
FM4	Fiber type, metal box 140x110x10 mm
CM4	Cable type, metal box 140x110x10 mm
CM5	Cable type, metal box 140x110x20 mm

package option II	
CAPM	OPTOKON cassette
SC	Splice cassette (TC251S-1X)
SA	Stand alone (plastic box)
RM	Rack mounted unit (MCNP-1U)[3)]
WM	Wall mounted box (MPIC-4)[3)]

3) including CM3 – CM5 box or splice cassete