

SFT-P series

2xN Planar Optical Splitter

Description:

The **2xN Planar Lightwave Circuits (PLC)** optical splitters are high performance, reliable and compact devices for splitting optical power, specifically designed to meet the tough requirements of FTTH, PON and CATV networks. Based on unique waveguide technology of Ion-Exchange in glass, such splitters exhibit very low insertion loss and PDL, great channel uniformity and a wide wavelength operative range.

The **2xN PLC** optical splitters are available in 2x4, 2x8, 2x16, 2x32, 2x64, 2x128 and custom configurations, and comply with Telcordia GR-1209 and GR-1221 requirements. Various packaging types, input and output fibers are available according to the customer demand.



SFT-P-02x08-BFF-NC-NC

Features:

- Planar Lightwave Circuit Splitters
- Low insertion loss
- Ultra wide bandwidth (1260-1650 nm)
- Polarization independent
- Excellent channel uniformity
- Compact size
- High reliability and stability

Specifications:

Parameter	2 x 2	2 x 4	2 x 8	2 x 16	2 x 32	2 x 64	2 x 128	
Operating Wavelength (nm)	1260 – 1650							
Maximum Insertion Loss (dB) ¹	4.0	7.6	11.0	14.4	17.5	21.0	24.5	
Uniformity (dB)	< 0.6	< 1.0	< 1.2	< 1.5	< 1.8	< 2.2	< 2.5	
Wavelength Dependent Loss (dB)	0.3	0.4	0.5	0.5	0.5	0.5	0.5	
Maximum PDL ² (dB)	0.2	0.2	0.3	0.3	0.4	0.4	0.5	
Return Loss (dB)	> 55							
Directivity (dB)	> 55							
Operating Temperature ³ (°C)	-40 to +75							
Storage Temperature ³ (°C)	-40 to +85							
Thermal stability	≤ 0.005 dB/°C							
Environmental qualification	Telcordia GR-1209/1221							
FTTH Tray Package ⁴ (mm)	BFF type	40x4x4	50x4x4	50x4x4	50x4x4	60x7x4	60x12x4	140x115x18 (module)
Fiber Type ⁵ :	BFF type	IN: Tight Buffer 900 μm / OUT: Bare Ribbon, 1±0.1 m length						
	PON type	IN: Tight Buffer 900 μm / OUT: Tight Buffer 900 μm, 1±0.1 m length						

Note:

- 1) Without connectors
- 2) Splitters with PDL < 0.1 dB are available upon request
- 3) Conditioned by the cable type
- 4) Without strain relief
- 5) Another fiber length – on request
Another IN/OUT fiber type (IN: bare fiber 250 μm, OUT: Tight/Loose tube 900 μm) – on request

Application:

- FTTH, FTTC, FTTB
- Passive Optical Networks (PON)
- Network expansion
- CATV networks
- OADM and ROADM
- CWDM and DWDM systems

Ordering Code:

SFT-P -	02 x N - XXX - NC-NC
Planar splitter	<p>Package option I</p> <p>BFF FTTH package</p> <p>FM1 Fiber type, metal box 100x15x9 mm</p> <p>FM5⁶ Fiber type, metal box 140x110x20 mm</p> <p>CM5⁶ Cable type, metal box 140x110x20 mm</p> <p>FC5⁷ Metal box 140x110x20 mm, fiber/cable</p> <p>CF5⁷ Metal box 140x110x20 mm, cable/fiber</p> <p>CP4 ABS box 100x80x10 mm, cable Ø 2 mm, up to 2:8 splitting ratio</p> <p>CP41 ABS box 120x80x18 mm, cable Ø 2 mm, up to 2:32 splitting ratio</p> <p>CP5 ABS box 140x114x18 mm, cable Ø 2 mm, up to 2:64 splitting ratio</p> <p>Package option II</p> <p>Installation into Optical Distribution Frame (ODF) on request:</p> <p>XXX: Part number of relevant ODF (e.g. MCNP, TMVJ, MCPJ, ...)</p>
# Ports⁸	No input and output connectors Connector type: - Can be defined according to CON_14-01 (Jumper Ordering Code)
02 x 04	
02 x 08	
02 x 16	
02 x 32	
02 x 64	
02 x 128	

Note:

- 6) Maximum 02 x 32, bigger rations only rack mount
- 7) Different IN/OUT cable-fiber
- 8) Packaging type depends on port configuration, type of connectors – please consult with your supplier

Example of Packaging Variant:



SFT-P-02x32-MCPJ-NSC