SFW-BS
Band splitter

Description:

The compact SFW-BS band splitter series is designed to be used for FTTH projects in passive optical network (PON) infrastructures. The SFW-BS shall be used for combining and splitting of wide wavelength range:

Type SFW-BS-31-49/55 combines a data signal wide wavelength bandwidth 1270 - 1537.5 nm with wavelength range 1542.5 – 1620 nm of analog or digital CATV signal.

Type SFW-BS-31-55/62 is used for separating 1625 nm from the rest of whole signal band, usually for measuring purposes.

Various types of pigtails and connector terminations are available to meet your requirements.

SFW-BS-31-49/55-BFS-NC

Features:

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

Applications:

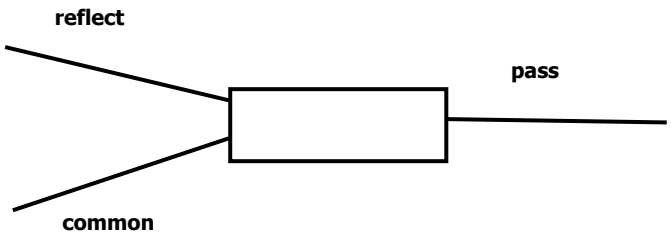
- FTTH – PON optical networks
- Coupling and splitting data and CATV signal
- Splitting 1625 nm for measurement

Technical specifications:

Parameters		Specification	
TYPE		**SFW-BS-31-49/55**	**SFW-BS-31-55/62**
Passband		1542.5 – 1620 nm	1600 – 1670 nm
Rejection Band		1270 - 1537.5 nm	1270 – 1580 nm
Insertion Loss [dB]	Pass Channel	< 0.8	< 0.5
	Reflect Channel	< 0.6	< 0.4
Isolation [dB]	Pass Channel	> 30	> 40
	Reflect Channel	> 18	> 24
Directivity [dB]		> 55	≥ 55
Return Loss [dB]		> 50	≥ 45
Dimensions (BFS) [mm]		32 x 5.5	34 x 5.5

Note: 1) 1310/1490/1550 nm
Insertion loss without connectors

Block diagram:



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Ordering Code:

SFW - BS - XX-XX / XX - XXX - AAA

	reflect channel[1] λ
31-49	1270 - 1537.5 nm
31-55	1270 – 1580 nm
	pass channel[1] λ
55	1542.5 – 1620 nm
62	1600 – 1670 nm

package version I (basic type)[2]	
BFS	Bare fiber 250 µm, metal tube
LTS	Fiber 0.9 mm, metal tube:
package version II (optional)	
CAPM	OPTOKON cassette

AAA – input and output connectors
Standard connector types:[3]

Code	Description
UPC	FC/UPC
NPC	FC/APC (2.05 standard)
USC	SC/UPC
NSC	SC/APC
NE2S	LSH (E2000)/APC standard
NE2P	LSH (E2000)/APC premium
ULC	LC/UPC
NLC	LC/APC
NC	no connectors

Note: 1) Commonly used channels in PON networks are 1310, 1490, 1550 and 1625 nm; for exact pass or reflect band, kindly see specification table above
2) Standard cable length = 1 m
3) The other connector types – refer to CON_13-01_EN - ORD_CODE

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