

SFT-TAP

Test Access Point splitter

Description:

The OPTOKON SFT-TAP splitter is designed for optical network monitoring during operation. According to the operator request it allows bi-directional or uni-directional monitoring of optical fiber in full CWDM wavelength range. The splitting ratio of TAP port can be customized in 1% – 50% rate. Wide range of the packaging types allows easy implementation into optical network which would be monitored. The SFT-Tap splitter can be installed directly into the system of optical distribution frames or delivered separately in boxes according to the operator demand.

Features:

- Passive access to fiber optic network
- Protocol and transmission speed independent
- High port isolation
- Custom defined specifications
- Environmentally stable
- Wavelength independent - full CWDM spectrum
- Up to 16 TAP modules in 1U rack mount configuration



TAP splitter

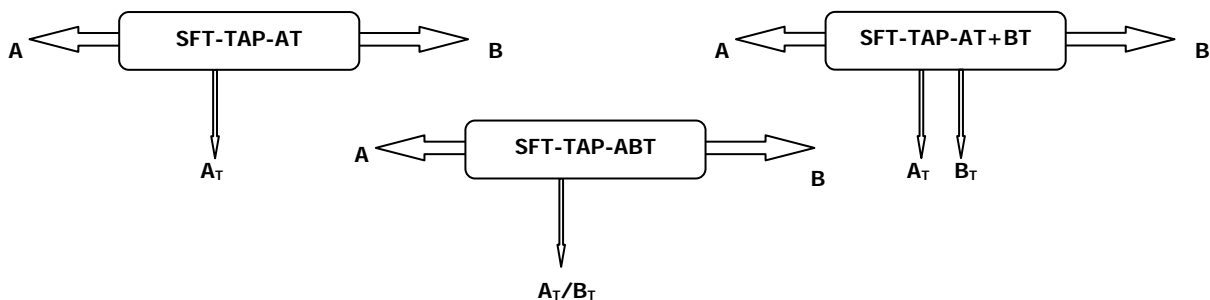
Technical specifications:

ITEM	Test Access Point splitter
Operating Wavelength, nm	1270 – 1630 (CWDM wavelength range)
Thermal Stability, dB (peak-peak)	< 0.2
PDL, dB	< 0.15, PDL free (< 0.05) – on request
Port Configuration	2 x 2 or 2 x 1
Coupling Ratio	1:99 to 10:90, (on request other)
Insertion Loss ¹⁾ , dB	Refer to the coupling ratio vs. Insertion loss chart
Directivity, dB	> 50
Return Loss, dB	> 50
Operating Temperature ²⁾ , °C	-40 to +85
Storage Temperature ²⁾ , °C	-50 to +85
WARNING	This product should never be installed in an optical network handling above Class I emissions

Note: 1) Without connectors
2) Conditioned by the cable type

Underwriters Laboratories approval, file number OBFA. E248452

Block diagram:



Coupling Ratio vs. Insertion Loss: AT, AT/BT		Coupling Ratio vs. Insertion Loss: AT+BT	
Coupling Ratio (%)	Insertion Loss (dB)	Coupling Ratio (%)	Insertion Loss (dB)
1 / 99	24.3 / 0.2	1+1 / 98	24.3 + 24.3 / 0.3
10 / 90	12.0 / 0.7	2+2 / 96	20.6 + 20.6 / 0.4
30 / 70	6.2 / 1.9	3+3 / 94	18.4 + 18.4 / 0.5
50 / 50	3.6	5+5 / 90	15.7 + 15.7 / 0.7

Ordering Code:

SFT - TAP - XXXX - XX - XXX - NC

type TAP ¹⁾	wavelength 1270 - 1630 nm	TAP ports AT ABT AT+BT D duplex AT	coupling ratio 01 1/99 10 10/90 30 30/70 50 50/50 Other ²⁾	NC no input and output connectors ³⁾ connector type - according to CON_14-01 (Jumper Ordering Code)
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Note:

- ±0.3 dB typ. tolerance A↔B (1370, 1390, 1410 nm IL increased for 0.2-0.3 dB)
- please define
- standard fiber/cable length = 1 m
- AT and AT/BT types

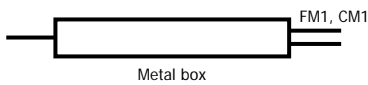
basic packaging

FM1 fiber type, metal box 100x15x9 mm⁴⁾
CM1 cable type, metal box 100x15x9 mm⁴⁾
FM3 fiber type, metal box 100x80x10, stackable
CM3 cable type, metal box 100x80x10, stackable

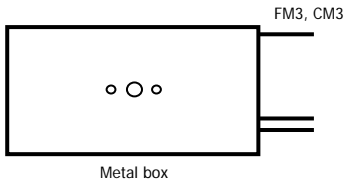
additional packaging

CAPM OPTOKON cassette
RM rack mount, MCNP-1U
PJ rack mount, MCPJ-1U
WM wall mount, MPIC-4

Packaging variants:

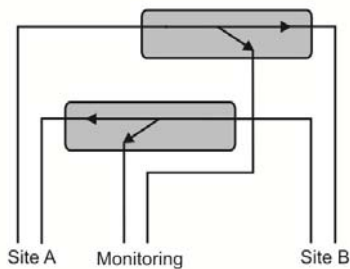


SFT-TAP-AT-10-CM1-NC

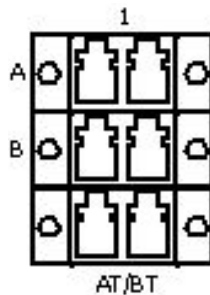


SFT-TAP-D-10-CAPM-SLCD

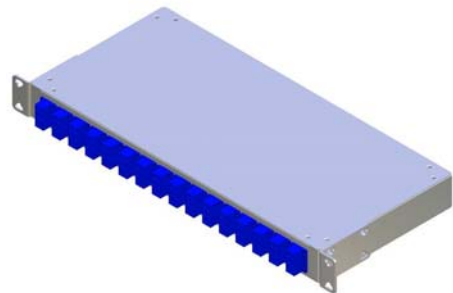
TAP-D configuration



Internal connection



Front panel marking



SFT-16xTAP-D-10-PJ1-SLCD