



Single Mode Broadband Tree Coupler Module SBTC - M x N (M: 1 or 2) (SBTC Series)

Rev 10

The SBTC Single Mode Broadband Tree Couplers offer very low insertion loss, low polarization dependence, well controlled uniformity in a wide wavelength range as excellent environmental stability. These modules have been extensively used to split and mix optical signals in CATV, LANs and other kinds of optical communication systems.

Specifications

Parameter	Unit	Value			
		1 or 2 x 4	1 or 2 x 8	1 or 2 x 16	1 or 2 x 32
Configuration		1 or 2 x 4	1 or 2 x 8	1 or 2 x 16	1 or 2 x 32
Center Wavelength (λ_c)	nm	1310 or 1550 or Specify			
Operating Wavelength	nm	$\lambda_c \pm 40$			
Max. Excess Loss	dB	0.25	0.4	0.55	0.7
Max. Insertion Loss	dB	6.8	10.2	13.6	17
Max. Polarization Dependent Loss	dB	0.2	0.3	0.4	0.5
Max. Uniformity	dB	1.2	1.8	2.4	3.0
Thermal Stability	dB	0.2	0.3	0.4	0.5
Min. Return Loss	dB	50			
Directivity	dB	60			
Max. Optical Power (Continuous Wave)	mW	300			
Fiber Type		SMF-28 fiber			
Package Dimensions	mm	A: 106 x 79 x 10 mm (for 1, 2 x 4 module) B: 125 x 96 x 15 mm (for 1, 2 x 8 module) C: 145 x 116 x 18 mm (for 1, 2 x 16; 1, 2 x 32 module)			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			

*IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

Ordering Information

SBTC-①①①①-②②-③③-④-⑤-⑥-⑦

①①①①: Configuration

0104 - 1 x 4 0204 - 2 x 4
0108 - 1 x 8 0208 - 2 x 8
0116 - 1 x 16 0216 - 2 x 16
0132 - 1 x 32 0232 - 2 x 32

②②: Wavelength

31 - 1310 nm
55 - 1550 nm
SS - Specify

③③: Coupling Ratio

BA - Balance
01 - 1% Tap/Balance
05 - 5% Tap/Balance
SS - Specify

④: Package Dimensions

A - 106 x 79 x 10 mm (for 1, 2 x 4)
B - 125 x 96 x 15 mm (for 1, 2 x 8)
C - 145 x 116 x 18 mm (for 1, 2 x 16, 1, 2 x 32)
S - Specify

⑤: Connector Type

1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑥: Fiber Type

L - 900 μ m loose tube
C - 3 mm cable

⑦: Fiber Length

H - 0.5 m
S - Specify