

Single Mode Tree Coupler Module

Cascaded single-mode fibre coupler modules for FTTH, optical LAN and CATV networks, in 1×N, 2×N or N×N star / tree configurations



PRODUCT OVERVIEW

The star coupler modules are based on cascading single-mode fibre couplers. They are specially packaged for FTTH, optical LAN and CATV networks. We provide 1×N, 2×N or N×N star or tree coupler modules, with the option of single window (1310 nm or 1550 nm) or dual-window (1310 & 1550 nm) operation, standard bandwidth (±20 nm) or wideband (±40 nm), and standard PDL or low-PDL modules.

KEY FEATURES

- Exceptional low excess loss
- Low PDL
- Excellent uniformity
- High stability and reliability

APPLICATIONS

- Communication systems
- Optical CATV / LAN
- FTTH

SPECIFICATIONS

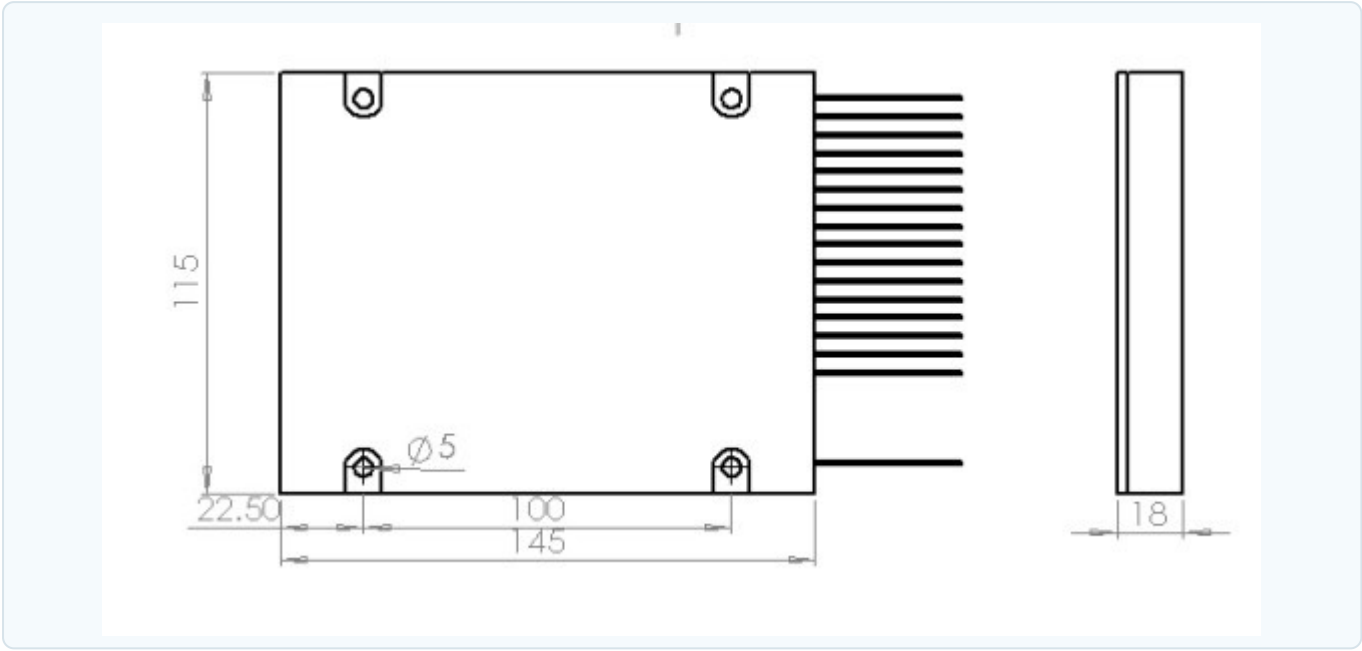
Values shown per split configuration — all configurations preserved as specified in the source

PARAMETER	1×4 / 2×4 / 4×4	1×8 / 2×8 / 8×8	1×16 / 2×16 / 16×16	1×32 / 2×32 / 32×32
Operating Wavelength	Single window: 1310 or 1550 nm; Dual window: 1310 & 1550 nm			
Bandwidth	Standard: ±20 nm; wideband: ±40 nm			
Max. Excess Loss (dB)	0.2	0.3	0.4	0.5
Typical Insertion Loss (dB)	6.2	10.2	13.6	17
Uniformity (dB)	< 1.2	< 1.8	< 2.4	< 3.0
Max. PDL	0.1	0.15	0.2	0.25
Max. TDL (dB)	0.2	0.3	0.4	0.5
Operating Temperature	-5 ~ 70 °C			
Pigtail Type	900 µm loose tube, 2 mm or 3 mm cable			
Dimension	145 × 115 × 18 — available customized metal package box			

Note 1: IL and RL values specified are without connector loss.

Note 3: Add 0.3 dB for dual-window (1310 and 1550) operation.

PACKAGE DIMENSION



All dimensions in millimeters (mm) — drawing not to scale for reproduction

ORDERING INFORMATION

SMTC / 1 - 2 - 3 - 4 - 5 - 6 - 7

1 PORT	2 OPERATING WAVELENGTH	3 COUPLING RATIO	4 FIBRE TYPE	5 FIBRE DIAMETER	6 FIBRE LENGTH	7 CONNECTOR
1:1x4	13:1310nm	50:50/50	S:SMF-28	2:250µm	1:0.8 m	00:Bare Fiber
2:1x8	15:1550nm	X:XX	H:HI-1060	9:900µm	2:1.0 m	FC:FC/PC
3:1x16	X:XX	—	X:XX	2:2.0mm	X:XX	SA:SC/PC
4:1x32	—	—	—	3:3.0mm	—	LP:LC/PC

Note 2: Specifications are subject to change without notice.