



Polarization Maintaining Tap Coupler (PMTC Series)

Rev 11

Description

The Polarization Maintaining Tap Coupler/Splitter is manufactured using advanced technology to allow the input signal to be split at various ratios with high extinction ratio.

Key Features

- Low Insertion Loss

Applications

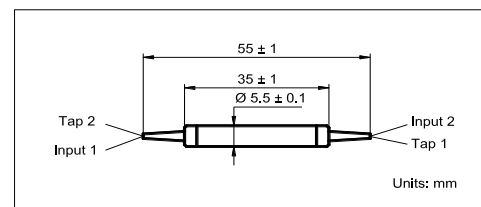
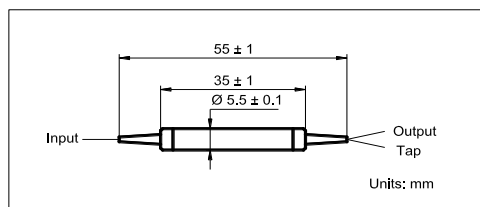
- Fiber Sensing
- Fiber Optic Instruments

Specifications

Parameter	Unit	Value	
Center Wavelength	nm	1310 or 1550	
Operating Wavelength Range	nm	$\lambda_c \pm 40$	
Configuration	-	1 × 2	2 × 2
Max. Excess Loss	dB	0.7	1.1
Max. Uniformity (only for 50%)	dB	0.6	0.8
Tap Ratio	%	1 ± 0.2, 2 ± 0.4, 4 ± 0.8, 5 ± 1.0, 10, 20 and 50	
Min. Return Loss	dB	50	50
Min. Extinction Ratio, 23 °C	dB	20	20
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28 or PM Panda Fiber for tap port	
	-	PM Panda Fiber for input & output ports	
Operating Temperature	°C	- 5 to + 70	
Storage Temperature	°C	- 40 to + 85	

¹IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMTC-①①-②-③③-④-⑤-⑥-⑦-⑧

①①: Wavelength

②: Configuration

③③: Coupling Ratio

④: Connector Type

31 - 1310 nm

1 - 1 × 2

01 - 01/99

10 - 10/90

1 - FC/UPC

4 - SC/APC

55 - 1550 nm

2 - 2 × 2

02 - 02/98

20 - 20/80

2 - FC/APC

N - None

SS - Specify

04 - 04/96

50 - 50/50

3 - SC/UPC

S - Specify

05 - 05/95

SS - Specify

⑤: Fiber Jacket
B - 250 μ m Bare Fiber
L - 900 μ m Loose Tube
S - Specify

⑥: Fiber Type for Tap Port
M - SMF-28 Fiber
P - PM Panda Fiber
S - Specify

⑦: Fiber Length
Q - 0.75 m
S - Specify

⑧: Working Axis
F - Fast Axis Blocked