

Polarization-maintaining Single Mode Taper Coupler

Features

- Low insertion loss
- High extinction ratio and Isolation
- Excellent environmental stability

Application

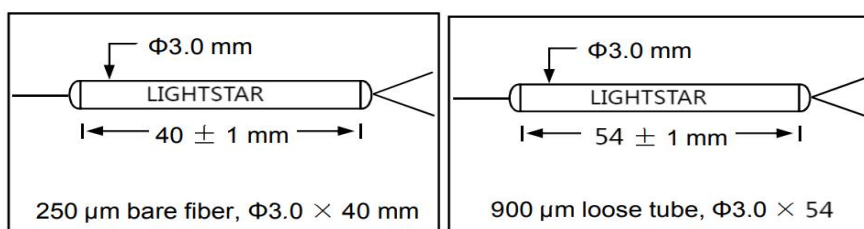
- EDFA
- Optical fiber amplifier
- Optical fiber sensing

Specifications

Parameter		Grade P	Grade A
Operating wavelength(nm)		1550,1310,1064,1030,980,850,780	
Bandwidth(nm)		± 15nm	
Insertion loss(dB)	50/50	≤3.6	≤3.8
	40/60	≤5.2/3.1	≤5.4/3.3
	30/70	≤5.8/2.0	≤6.1/2.1
	20/80	≤8/1.5	≤8.2/1.7
	10/90	≤11.6/1.2	≤11.8/1.4
	5/95	≤14.8/0.8	≤15/1.0
	2/98	≤18.4/0.4	≤18.9/0.5
	1/99	≤22/0.35	≤22.5/0.4
Extinction ratio(dB)	Coupler Ratio > 10%	20	18
	10% ≤ Coupler Ratio ≤ 5%	18	16
	Coupler Ratio < 5%	16	14
Structure	1x2 or 2x2		
Optical length	0.8m, others on request		
Fiber type	Panda fiber		
Pigtail type	250μm bare fiber	900μm loose tube	900μm/2mm/3mm loose tube
Package dimensions(φ×L)(mm)	φ3.0×L54 φ3.0×L40 φ3.0×60	φ3.0×L54 φ3.0×60 φ3.0×L70	90x20x9.5

When using the Connector, the processing power is only 1W, the Insertion loss is 0.3dB higher, the return loss is 5dB lower, and the extinction ratio is 2dB lower. The Connector key is aligned with the slow axis.

Package dimensions



Ordering information

FPMC--①①①①-②-③-④④④-⑤-⑥-⑦-⑧-⑨

①①①①:Wavelength

1310=1310nm

1550=1550nm

SSSS=Specify

②:Port type

1= 1x2

2=2x2

③:Splitting ratio

1= 1/99

A= 10/90

S=Specify

④④④:Fiber type

008=SMF-28e

004=HI1060

SSS=Specify

⑤:Rank

P=P Grade

A=A Grade

⑥:Package dimensions

2=φ3.0×L54

3=φ3.0×L60

S=Specify

⑦:Pigtail type

1=250um bare fiber

2=900um loose tube

S=Specify

⑧:Length

H=0.5m

1= 1.0m

S=Specify

⑨:Connector

0=None

1=FC/UPC

2=FC/APC

S=Specify