1700nm 1x2 2x2 PM Fiber Fused Coupler

1700nm 1x2, 2x2 Polarization Maintaining (PM) Fused Coupler is built with fused biconical taper (FBT) technology, it can be used in split the optical signal power into two parts with even or various coupling ratio and keep the polarization maintaining, it's widely applied in fiber optic sensor, fiber amplifier system and fiber optic diffraction field.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Fiber Laser
Optical Diffraction System

Features:

Low Excess Loss
Low Insertion Loss
High Extinction Ratio
High Reliability

Specification:

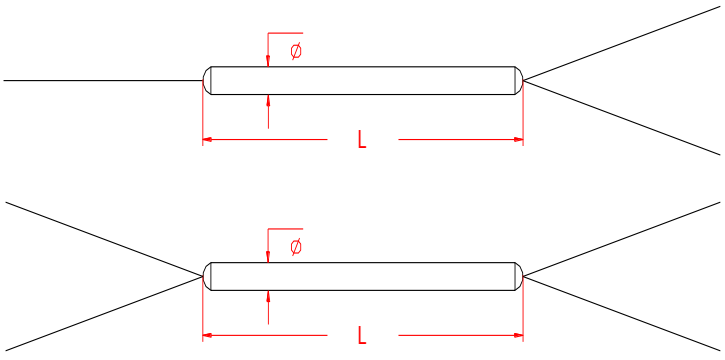
Parameter		Symbol	Value	Unit
Center Wavelength		λ	1700	nm
Bandwidth		BW	±10	nm
Max. Excess Loss		EL	0.8	dB
Max. Insertion Loss	50/50 (±3.5)	IL	3.6/3.6	dB
	40/60 (±2.5)		5.2/3.1	dB
	30/70 (±2.5)		5.8/2.0	dB
	20/80 (±2.0)		8.0/1.5	dB
	10/90 (±1.2)		11.6/1.2	dB
	5/95 (±0.8)		14.8/0.8	dB
	3/97 (±0.7)		17.0/0.5	dB
	2/98 (±0.6)		18.4/0.4	dB
	1/99 (±0.4)		22/0.35	dB
Min. Extinction Ratio		ER	20	dB
Min. Directivity			50	dB
Min. Return Loss		RL	50	dB
Fiber Type			PM Panda Fiber	-
Max. Tensil Load			5	N
Max. Optical Power (CW)		P	2	W
Operating Temperature		T	-40~75	℃
Storage Temperature		T	-40~85	℃
Package Dimension			Φ3.0×L54	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.

For devices with connectors, IL will be 0.3dB higher, EL will be 0.2dB higher, ER will be 2dB lower, slow axis is default aligned to the connector key.

If need optical power more than 2W CW, please contact us to confirm. Connectors only 1W (Continue Wavelength) optical power guarantee.

Drawing:



Ordering Information (Part Number):

PMFUC-WWWW-PP-A-RR-J-LL-CC

WWWW	PP	A	RR	J	LL	CC
Wavelength	**Port**	**Working Axis**	**Coupling Ratio**	**Fiber Jacket**	**Fiber Length**	**Connector**
1700 - 1700nm 1720 - 1720nm 1750 - 1750nm SSSS - Specify	12 - 1x2 22 - 2x2	B - Both Axes Working S - Slow Axis Working F - Fast Axis Working	01 - 1/99 02 - 2/98 03 - 3/97 05 - 5/95 10 - 10/90 20 - 20/80 30 - 30/70 40 - 40/60 50 - 50/50 SS - Specify	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UPC SS - Specify