

Manual Tunable PM Fiber Coupler

I&Optics' tunable polarization maintaining fiber coupler can split any input light into two portions by any wanted splitting ratio or mix two input lights in one or two by any wanted ratio. It features flexible various coupling ratio, low excess loss and high extinction ratio due to our unique technology. It can be used in lasers, LiDARs, telecom, sensors, instruments, testing systems and R&D.

Specification

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Parameter	Test Condition	Unit	Value		
Port Configuration	-	-	1x2	2x2	
Nominal Center Wavelength	-	nm	980, 1064 or	980, 1064 or Specify	
Wavelength Range	-	nm	+/-20		
Max. Excess Loss	at Slow or Fast Axis	dB	0.9, Typ. 0.7	1.1, Typ. 0.85	
Nominal Tap Ratio	at Tap Port	%	Tunable from	Tunable from 0.1 to 99	
Min. Extinction Ratio	at 23°C, only for PM Fiber Port,	dB	21, Typ. 23 for B-Type		
	at Slow or Fast Axis		22, Typ. 24 for F-Type		
Min. Directivity	Port 3 to Port 2 (1x2) or Port	dB	50		
	1/(3) to Port 2/(4)	uБ			
Min. Return Loss	at Center Wavelength	dB	50		
Max. Power Handling Rate	Continuous Wave, Total Power	mW	300 or Specify		
Fiber Type	-	-	HI 1060 or PM 980 Panda Fiber or Specify		
Max. Fiber Tensile Load	-	N	5		
Operating Temperature	-	°C	-5 to 50		
Storage Temperature	-	°C	-40 to 85		

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher, ER will be 2dB lower, and return loss will 5dB lower.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

Package Dimensions

Detailed Informations And Dimensions Please Contact Us. Customized Design Is Available Upon Request.

Ordering Informations

MTPMFC-①-②-③-④-⑤-⑥-⑦

6 - Fiber Jacket on Port 1/2/3/4 1 - Center Wavelength 3 - Operating Axis

98 - 980nm B - Both Axes Working B - Bare Fiber

06 - 1064nm F - Fast Axis Blocked L - 900um Loose Tube

SS - Specify

4 - Fiber Type on Tap Port 7 - Fiber Length

1 - HI 1060 Fiber ② - Port Configuration 0.8 - 0.8m

1 - 1x2 2 - PM 980 Panda Fiber 2 - 2x2

⑤ - Connector Type on port 1/2/3/4

1 - FC/UPC 2 - FC/APC 3 - SC/UPC 4 - SC/APC

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