

PMFC Polarization Maintaining Fused Fiber Coupler (488 – 2000 nm)

Model #: PMFC

Description: Polarization Maintaining Fused Fiber Coupler PMFC (488 – 2000 nm)

Application: Power monitoring, coherent communications, fiber gyroscope, fiber laser, fiber amplifier, test equipment

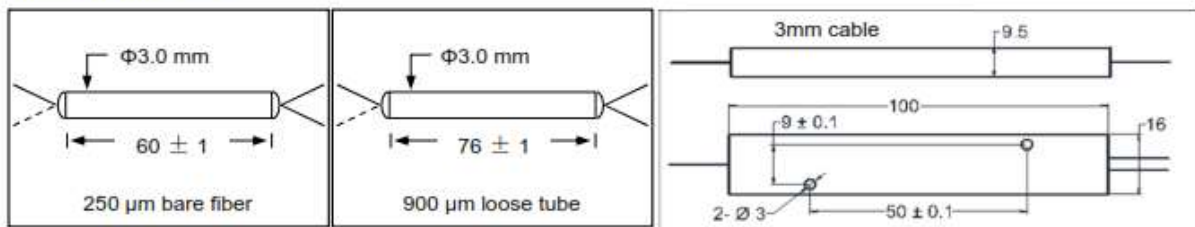
Specifications:

Parameter	Unit	Specifications							
Central Wavelength (λ_c)	nm	488, 532, 635	780, 830	980, 1064	1310, 1480, 1550	1700, 2000			
Operating Wavelength	nm	$\lambda_c \pm 5$	$\lambda_c \pm 10$	$\lambda_c \pm 10$	$\lambda_c \pm 20$	$\lambda_c \pm 20$			
Typical Excess Loss	dB	0.8	0.5	0.4	0.2	0.5			
Max. Excess Loss	dB	1.2	0.8	0.6	0.4	0.8			
Min. PER*	dB	18	18	20	20	20			
Max. Excess Loss for Each Connector	dB	1.5	0.7	0.5	0.3	0.3			
Max. Optical Power (Continuous Wave)	W	2							
Thermal Stability	dB/°C	0.005							
Min. Return Loss	dB	50							
Min. Directivity	dB	50							
Fiber Type for Tap Port	mW	PM fiber or single mode fiber							
Operating Temperature	°C	-5 to +70							
Storage Temperature	°C	-40 to + 85							
Coupling Ratio & Its Tolerance									
Coupling Ratio	%	1/99	2/98	5/95	10/90	20/80	30/70	40/60	50/50
Max. Coupling Ratio Tolerance, (λ_c)	%	± 0.3	± 0.5	± 0.7	± 1.0	± 2.0	± 2.0	± 2.5	± 3.0
Coupling Ratio	%	0.1/99.9		0.01/99.99					
Tap Ratio Tolerance, (λ_c)	dB	30+/- 3		40 +/-4					

*Note:

- ER data listed in the table are for the points with coupling ratio greater than 10%. It will be 2 dB lower for a tap port with coupling ratio between 1 – 10%. For 1% tap port, ER is not considered.
- ER will be 2dB lower for Nufern FUD-3460 and Nufern PM 1950fiber.
- RL is 5 dB lower, ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.
- The optical power is 1 W only if connector is added. For visible wavelength, the limit is 50 mW.
- Data tested at central wavelength only.

Package Dimensions



Ordering Information: PMFC-A-BBBB-CC-D-E-F-G-H-J

A: configuration	BBBB: wavelength	CC: coupling ratio	D - fiber type for tap port	E: connector type	F: fiber jacket	G: fiber length
1 – 1 x 2	488 – 488 nm	01 – 1/99	P – PM fiber	1 - FC/UPC	B – 250 μm bare fiber	H – 0.5 m
2 – 2 x 2	532 – 532 nm	02 – 2/98	M – single mode fiber	2 - FC/APC	L - 900 μm loss tube	Q – 0.75 m
	635 – 635 nm	05 – 5/95		3 - SC/UPC	3 – 3 mm cable	X - other
	780 – 780 nm	10 – 10/90		4 - SC/APC	X - other	
	830 – 830 nm	20 – 20/80		N - none		
	980 – 980 nm	30 – 30/70		X - other		
	1064 – 1064 nm	40 – 40/60				
	1310 – 1310 nm	50 - 50/50				
	1480 – 1480 nm	0.1 – 0.1/99.9				
	1550 – 1550 nm	0.01 – 0.01/99.99				
	1700 – 1700 nm	XX - other				
	2000 – 2000 nm					
	XXXX - other					
H: fiber type						
1 - Nufern PM 460-HP						
2 - Nufern PM 630-HP						
3 - Corning Panda PM 850						
4 - Corning Panda PM 980						
5 - Corning Panda PM 1310						
6 - Corning Panda PM 1550						
7 - Nufern PM 1950						
8 - Nufern FUD-3460						
X - Specify						