



## Polarization maintaining components

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# 1030nm PM Bandpass Filter

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability & Stability

## Applications

Fiber Laser  
 Test Instrument  
 Fiber Sensor  
 EDFA

## Specifications

Parameter	Unit	Value		
Operating Wavelength	nm	1030		
Max. Polarization Dependent Loss at 23 °C, only for PI	dB	20		
Min. Return loss	dB	50		
Max. Power Handling (CW)	mW	300		
Max. Tensile Load	N	5		
Operating Temperature	°C	0 ~ +65		
Storage Temperature	°C	-40 ~ +85		
Package Dimension	mm	Φ5.5*35 Steel tube (bare fiber,0.9mm loose tube)		
Pass Band Width	nm	2	9	25
Max. Insertion Loss of Pass band	dB	0.8	0.8	0.8
Max. Stop Bandwidth (@-25dB)	nm	6	20	20

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Ordering Information

BPF- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1030=1030nm
B	-Band Width:	02=2nm, 05=5nm, 10=10nm, 15=15nm
C	-Alignment Type:	F=Slow axis working, Fast axis blocked, B=Both axis working
D	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Package Dimension:	0=φ5.5x35mm, 1=70x12x8, S=Specified
F	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
G	-Fiber Length:	0=0.8m,1=1m
H	-Connector Type:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC
I	-Average Power:	00=500mW, 01=1W, , 30=30W
J	-Peak Power:	10=10kW, 20=20kW

# 1064nm PM Filter Coupler (Both axis working)

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability

## Applications

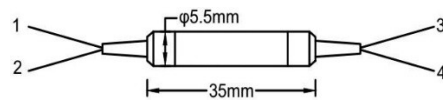
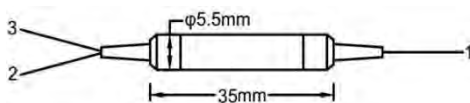
EDFA & Raman Amplifier  
 Fiber Sensor  
 Fiber Optical Instrument  
 Power Monitoring System High Stability

## Specifications

Parameter	Unit	Value
Type	-	1x2 2x2
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Max. Excess Loss	dB	0.8 1.2
Uniformity (only for 50/50)	dB	0.5 0.8
Min. Extinction Ratio at 23 °C	dB	20 18
Coupling Ratio	dB	01/99~50/50
Min. Return Loss	dB	50
Max. Optical Power(CW)	mW	300
Max.Tensile Load	N	5
Fiber Type	Tap Port	- SMF-28E, Hi1060 or PM Panda fiber
	Port 1 & 3	- PM Panda fiber
Package Dimension	mm	Φ5.5*35 Steel tube (bare fiber,0.9mm loose tube)
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Routing path is 3 to 1, 2(tap)

Routing path is 1 to 2(tap), 3 or 4 to 3(tap), 2

## Ordering Information

PMFC- BPF- A/B/C/D/E/F/G/H/I

A	-Center Wavelength:	1550=1550nm,1310=1310nm,.....,0850=850nm
B	-Port number:	3=1x2, 4=2x2
C	-Tap ratio:	01=1%,02=2%,.....,05=5%,....., 50=50%
D	-Axis Alignment:	A=Slow axis working; B=Both of axis working
E	-Fiber type for Port 1, 3:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Fiber type for Tap:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, S=Specified
H	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
I	-Fiber Length:	0=0.8m,1=1m
J	-Connector for Port 1,2,3,4:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# 1064nm PM Filter Coupler(Fast axis blocked)

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability

## Applications

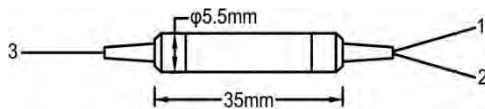
EDFA & Raman Amplifier  
 Fiber Sensor  
 Fiber Optical Instrument  
 Power Monitoring System High Stability

## Specifications

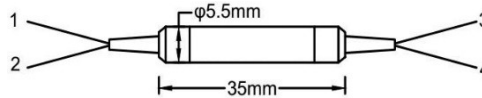
Parameter	Unit	Value
Type	-	1x2   2x2
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Max. Excess Loss	dB	0.8   1.2
Uniformity (only for 50/50)	dB	0.5   0.8
Min. Extinction Ratio at 23 °C	dB	22
Coupling Ratio	dB	01/99~50/50
Min. Return Loss	dB	50
Max. Optical Power(CW)	mW	300
Max. Tensile Load	N	5
Fiber Type	Tap Port	- SMF-28E, Hi1060 or PM Panda fiber
	Port 1 & 3	- PM Panda fiber
Package Dimension	mm	Φ 5.5*35 Steel tube (bare fiber,0.9mm loose tube)
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Routing path is 3 to 1,2(tap)



Routing path is 1 to 3, 4(tap) & 3 to 1, 2(tap)

## Ordering Information

PMFC- A/B/C/D/E/F/G/H/I

A	-Center Wavelength:	1550=1550nm,1310=1310nm,.....,0850=850nm
B	-Port number:	3=1x2, 4=2x2
C	-Tap ratio:	01=1%,02=2%,.....,05=5%,....., 50=50%
D	-Axis Alignment:	F=Slow axis working, Fast axis blocked
E	-Fiber Type for Port 1,3:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Fiber Type for Tap Port:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, 2=φ5.5x50mm,S=Specified
H	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
I	-Fiber Length:	0=0.8m,1=1m
J	-Connector for Port 1,2,3,4:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC

# 1064nm PM Bandpass Filter

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability & Stability

## Applications

Fiber Laser  
 Test Instrument  
 Fiber Sensor  
 EDFA

## Specifications

Parameter	Unit	Value		
Operating Wavelength	nm	1064		
Min. Extinction Ratio at 23 °C, only for PM	dB	20		
Min. Return loss	dB	50		
Max. Power Handling (CW)	W	30		
Max. Pulsed Power	kW	10,20 or Specified		
Max. Tensile Load	N	5		
Operating Temperature	°C	0 ~ +65		
Storage Temperature	°C	-40 ~ +85		
Package Dimension	mm	Φ5.5*35 Steel tube (bare fiber,0.9mm loose tube)		
Pass Band Width	nm	2	5	8
Max. Insertion Loss of Pass band	dB	0.8	0.8	0.8
Max. Stop Bandwidth (@-25dB)	nm	10	10	20

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Ordering Information

PMBPF- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1064=1064nm
B	-Band Width:	02=2nm, 05=5nm, 08=08nm, 10=10nm
C	-Alignment Type:	F=Slow axis working, Fast axis blocked, B=Both axis working
D	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Package Dimension:	0=φ5.5x35mm, 1=70x12x8, S=Specified
F	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
G	-Fiber Length:	0=0.8m,1=1m
H	-Connector Type:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC
I	-Average Power:	00=500mW, 01=1W,..... , 30=30W
J	-Peak Power:	10=10kW, 20=20kW

# 1310nm PM Filter Coupler (Both axis working)

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability

## Applications

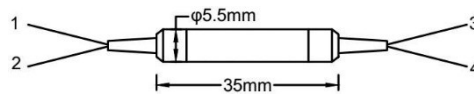
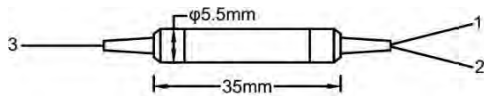
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 Fiber Sensor  
 Fiber Optical Instrument  
 Power Monitoring System High Stability

## Specifications

Parameter	Unit	Value	
Type	-	1x2	2x2
Center Wavelength	nm	1310	
Operating Wavelength Range	nm	±40	
Max. Excess Loss	dB	0.7	1.0
Uniformity (only for 50/50)	dB	0.4	0.6
Min. Extinction Ratio at 23 °C	dB	20	18
Coupling Ratio	dB	01/99~50/50	
Min. Return Loss	dB	50	
Max. Optical Power(CW)	mW	300	
Max.Tensile Load	N	5	
Fiber Type	Tap Port	-	SMF-28E, Hi1060 or PM Panda fiber
	Port 1 & 3	-	PM Panda fiber
Operating Temperature	°C	-5~+70	
Storage Temperature	°C	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Routing path is 3 to 1,2(tap)

Routing path is 1 to 2(tap), 3 or 4 to 3(tap), 2

## Ordering Information

PMFC- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1550=1550nm,1310=1310nm,.....,0850=850nm
B	-Port number:	3=1x2, 4=2x2
C	-Tap Ratio:	01=1%,02=2%,.....,05=5%,....., 50=50%
D	-Axis Alignment:	B=Both of axis working
E	-Fiber Type for Port 1, 3:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Fiber Type for Tap:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, S=Specified
H	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
I	-Fiber Length:	0=0.8m,1=1m
J	-Connector for Port 1,2,3,4:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# 1550nm PM Filter Coupler (Both axis working)

## Features

Low Insertion Loss  
High Return Loss  
High Extinction Ratio  
High Reliability

## Applications

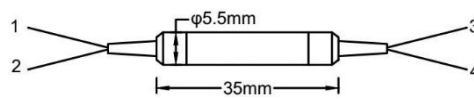
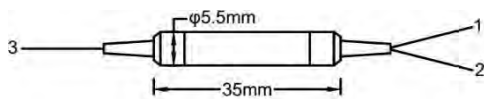
EDFA & Raman Amplifier  
Fiber Sensor  
Fiber Optical Instrument  
Power Monitoring System High Stability

## Specifications

Parameter	Unit	Value	
Type	-	1x2	2x2
Center Wavelength	nm	1550	
Operating Wavelength Range	nm	±40	
Max. Excess Loss	dB	0.7	1.0
Uniformity (only for 50/50)	dB	0.4	0.6
Min. Extinction Ratio at 23°C	dB	20	18
Coupling Ratio	dB	01/99~50/50	
Min. Return Loss	dB	50	
Max. Optical Power(CW)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	Tap Port	-	SMF-28E, Hi1060 or PM Panda fiber
	Port 1 & 3	-	PM Panda fiber
Operating Temperature	°C	-5~+70	
Storage Temperature	°C	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Routing path is 3 to 1,2(tap)

Routing path is 1 to 2(tap), 3 or 4 to 3(tap), 2

## Ordering Information

PMFC- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1550=1550nm,1310=1310nm, .....,0850=850nm
B	-Port number:	3=1x2, 4=2x2
C	-Tap Ratio:	01=1%,02=2%,.....,05=5%,....., 50=50%
D	-Axis Alignment:	B=Both of axis working
E	-Fiber Type for Port 1, 3:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Fiber Type for Tap:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, S=Specified
H	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
I	-Fiber Length:	0=0.8m,1=1m
J	-Connector for Port 1,2,3,4:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None



# 1550nm PM Filter Coupler(Fast axis blocked)

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability

## Applications

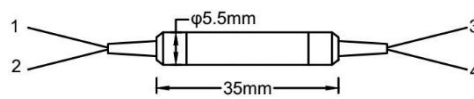
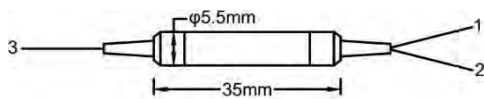
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 Fiber Sensor  
 Fiber Optical Instrument  
 Power Monitoring System High Stability

## Specifications

Parameter	Unit	Value
Type	-	1x2   2x2
Center Wavelength	nm	1550
Operating Wavelength Range	nm	±40
Max. Excess Loss	dB	0.7   1.0
Uniformity (only for 50/50)	dB	0.4   0.6
Min. Extinction Ratio at 23°C	dB	22
Coupling Ratio	dB	01/99~50/50
Min. Return Loss	dB	50
Max. Optical Power(CW)	mW	300
Max. Tensile Load	N	5
Fiber Type	Tap Port	- SMF-28E, Hi1060 or PM Panda fiber
	Port 1 & 3	- PM Panda fiber
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Routing path is 3 to 1,2(tap)

Routing path is 1 to 3, 4(tap) & 3 to 1, 2(tap)

## Ordering Information

PMFC- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1550=1550nm,1310=1310nm,.....,0850=850nm
B	-Port number:	3=1x2, 4=2x2
C	-Tap ratio:	01=1%,02=2%,.....,05=5%,....., 50=50%
D	-Axis Alignment:	F=Slow axis working, Fast axis blocked
E	-Fiber Type for Port 1,3:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Fiber Type for Tap Port:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, 2=φ5.5x50mm,S=Specified
H	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
I	-Fiber Length:	0=0.8m,1=1m
J	-Connector for Port 1,2,3,4:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC

# 1550nm PM Bandpass Filter

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability & Stability

## Applications

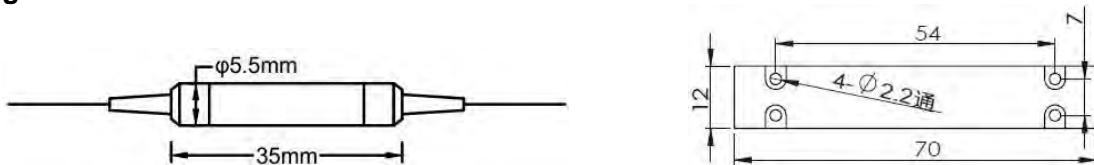
Fiber Laser  
 Test Instrument  
 Fiber Sensor  
 EDFA

## Specifications

Parameter	Unit	Value			
Operating Wavelength	nm	1550			
Min. Extinction Ratio at 23°C, only for PM	dB	20			
Min. Return loss	dB	50			
Max. Power Handling (CW)	W	30			
Max. Pulsed Power	kW	10,20 or Specified			
Max. Tensile Load	N	5			
Operating Temperature	°C	0 ~ +65			
Storage Temperature	°C	-40 ~ +85			
Pass Band Width	nm	2	5	10	15
Max. Insertion Loss of Pass band	dB	0.8	0.8	0.8	0.8
Max. Stop Bandwidth (@-25dB)	nm	10	10	25	25

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Max. Input Power:10W

Max.Input Power:20W

## Ordering Information

PMBPF- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1550=1550nm
B	-Band Width:	02=2nm, 05=5nm, 10=10nm, 15=15nm
C	-Alignment Type:	F=Slow axis working, Fast axis blocked, B=Both axis working
D	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Package Dimension:	0=φ5.5x35mm, 1=70x12x8, S=Specified
F	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
G	-Fiber Length:	0=0.8m,1=1m
H	-Connector Type:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC
I	-Average Power:	00=500mW, 01=1W,..... , 30=30W
J	-Peak Power:	10=10kW, 20=20kW

# 1550nm 1xN PM PLC Splitter Module

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability  
 Monitoring System High Stability

## Applications

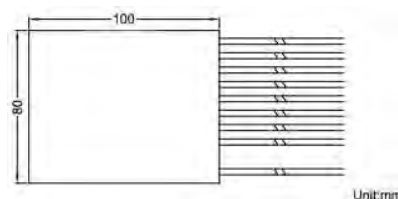
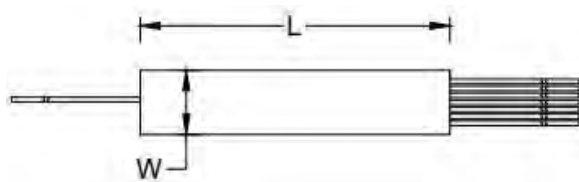
EDFA & Raman Amplifier  
 Fiber Sensor  
 Fiber Optical Instrument  
 Power

## Specifications

Parameter	Unit	Value		
Type	-	1x4	1x8	1x16
Center Wavelength	nm	1520-1570		
Max. Insertion Loss	dB	7.3	10.5	13.7
Max. Wavelength Dependent Loss	dB	0.6	0.6	1.0
Uniformity	dB	0.6	0.8	1.2
Min. Extinction Ratio at 23 °C	dB	18		
Min. Return Loss	dB	50		
Max. Insertion Temperature Stability(-40~85 °C)	dB	0.5		
Max. Optical Power(CW)	mW	300		
Max. Tensile Load	N	5		
Fiber Type	-	PM Panda fiber		
Operating Temperature	°C	-5~+70		
Storage Temperature	°C	-40~+85		
Mini Package Dimensions	mm	60x7x4	60x7x4	60x12x4
Package Dimensions(ABS Box)	mm	100x80x10	100x80x10	120x80x18

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Mini Size:Both Axis Working  
 250µm/900µm

ABS Box:Both Axis Working or Fast Axis Blocked  
 250µm/900µm/2.0mm/3.0mm

## Ordering Information

PMPLC-A/B/C/D/E/F/G/H

A	-Center Wavelength:	1550=1550nm, 1310=1310nm
B	-Port Number:	102=1x2, 104=1x4,....., 108=1x8,.....116=1x16
C	-Axis Alignment:	B=Both axis working, F=Slow axis working, Fast axis blocked(only for ABS box)
D	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Package Dimension:	S=Mini size (only bare fiber & 900µm loose tube), L= ABS box
F	-Pigtail Type:	0=250µm bare fiber, 1=900µm loose tube, 2=2.0mm loose tube, 3=3.0mm loose tube
G	-Fiber Length:	0=0.8m,1=1m
H	-Connector Type:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC

# PM PLC Splitter Module(2xN)

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability  
 Monitoring System High Stability

## Applications

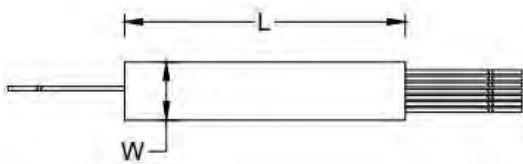
EDFA & Raman Amplifier  
 Fiber Sensor  
 Fiber Optical Instrument  
 Power

## Specifications

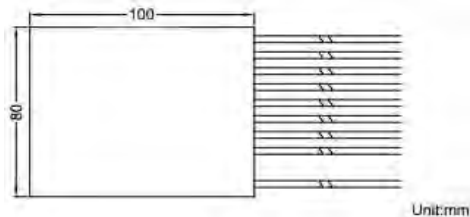
Parameter	Unit	Value			
Type	-	2x2	2x4	2x8	2x16
Center Wavelength	nm	1550 or 1310			
Max. Insertion Loss	dB	4.2	7.6	11.0	14.4
Max. Wavelength Dependent Loss	dB	0.6	0.6	0.6	0.8
Uniformity	dB	0.9	1.1	1.2	1.5
Min. Extinction Ratio at 23 °C	dB	18			
Min. Return Loss	dB	50			
Max. Insertion Temperature Stability(-40 ~ 85 °C)	dB	0.5			
Max. Optical Power(CW)	mW	300			
Max. Tensile Load	N	5			
Fiber Type	-	PM1550 fiber or PM1310 fiber			
Operating Temperature	°C	-5~+70			
Storage Temperature	°C	-40~+85			
Mini Package Dimensions	mm	40x4x4	40x4x4	40x4x4	50x7x4
Package Dimensions(ABS Box)	mm	100x80x10	100x80x10	100x80x10	120x18x10

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Mini Size:Both Axis Working  
 250µm/900µm



ABS Box:Both Axis Working or Fast Axis Blocked  
 250µm/900µm/2.0mm/3.0mm

## Ordering Information

PMPLC- A/B/C/D/E/F/G/H

Letter	Parameter	Value
A	-Center Wavelength:	1550=1550nm, 1310=1310nm
B	-Port Number:	202=2x2, 204=2x4,....., 208=2x8,.....216=2x16
C	-Axis Alignment:	B=Both axis working, F=Slow axis working, Fast axis blocked(only for ABS box)
D	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Package Dimension:	S=Mini size (only bare fiber & 900µm loose tube), L= ABS box
F	-Pigtail Type:	0=250µm bare fiber, 1=900µm loose tube, 2=2.0mm loose tube, 3=3.0mm loose tube
G	-Fiber Length:	0=0.8m,1=1m
H	-Connector Type:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC

# PM CWDM Device

## Features

Low Insertion Loss  
 High Return Loss  
 High Channel Isolation  
 High Reliability & Stability

## Applications

CWDM System  
 CWDM/OADM Module  
 CWDM/OADM Networks Wide Transmission Width

## Specifications

Parameters	Unit	Values	
Central Wavelength	nm	ITU or ITU+1	
Operating Wavelength	nm	1260~1460 or 1460~1620 or 1260~1620	
Channel Space	nm	20	
Min. Channel Bandwidth@ $\lambda_c$	nm	$\pm 6.5$	
Max. Channel Flatness	dB	0.4	
Max. Insertion Loss	Transmission Channel	dB	0.6
	Reflection Channel	dB	0.4 (1260~1460 or 1460~1620) or 0.6(1260~1620)
Min. Isolation	Adjacent Channel	dB	30
	Non-adjacent Channel	dB	40
	Reflection Channel	dB	12
Directivity	dB	55	
Min. Return Loss	dB	50	
Min. Extinction Ratio at 23 °C	dB	18	
Max. Wavelength Thermal Stability	nm/°C	0.003	
Max. Insertion Loss Thermal Stability	dB/°C	0.005	
Max. Power Handling	mW	500	
Operating Temperature	°C	0~+70	
Storage Temperature	°C	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



## Ordering Information

PMCWDM-A/B/C/D/E/F/G/H/I

A	-Center Wavelength:	27=1270nm or 1271nm, .....,55=1550 or 1551nm, .....,61=1610nm or 1611nm
B	-Operating Wavelength:	F=Full wave(1260nm~ 1620nm), H=Half wave(1260~1460 or 1460~1620)
C	-Port Type:	3=1x2
D	-Axis Alignment for Signal Route:	B=Both Axis Working, F=Slow Axis Working, Fast Axis Blocked
E	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0= $\phi 5.5 \times 35$ mm, S=Specified
G	-Pigtail Type:	0=250 $\mu$ m bare fiber, 1=900 $\mu$ m loose tube
H	-Fiber Length:	0=0.8m, 1=1m
I	-Connector for Com, Ref, Pass:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC

# PM DWDM Device

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High Reliability & Stability

## Applications

DWDM Module  
 DWDM System  
 Pon Networks  
 CATV Links

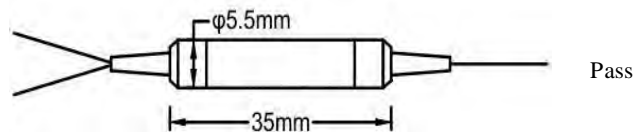
## Specifications

Parameters	Unit	Values	
Channel Space	Ghz	100	200
Center Wavelength	nm	ITU Grid	
Center Wavelength Accuracy	nm	±0.05	0.01
Channel Pass band (@-0.5dB)	nm	0.22	0.5
Max. Insertion Loss of Transmission Channel	dB	1.0	0.9
Max. Insertion Loss of Reflection Channel	dB	0.4	0.4
Min. Transmission Isolation @Reflection Wavelength	dB	30	30
Min. Reflection Isolation @Transmission Wavelength	dB	10	10
Max. Channel Flatness	dB	0.3	
Min. Extinction Ratio at 23°C	dB	18	
Max. Wavelength Thermal Stability	nm/°C	0.003	
Max. Insertion Loss Thermal Stability	dB/°C	0.005	
Min. Return Loss	dB	50	
Max. Power Handling (CW)	mW	500	
Fiber Type	-	PM Panda fiber	
Operating Temperature	°C	0~+70	
Storage Temperature	°C	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions

Com Ref



## Ordering Information

PMDWDM-A/B/C/D/E/F/G/H/I

A	-Center Wavelength:	26=26CH,27=27CH,....., 40=40CH, 41=41CH,.....
B	-Port Type:	2=1x1, 3=1x2
C	-Channel Space:	1=100G, 2=200G
D	-Axis Alignment:	B=Both Axis Working
E	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m,1=1m
I	-Connector for Com, Ref, Pass:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# 1550nm/1310nm/1064nm PM Fiber Mirror

## Features

Low Insertion Loss  
 High Return Loss  
 High Reliability  
 High Stability  
 Research

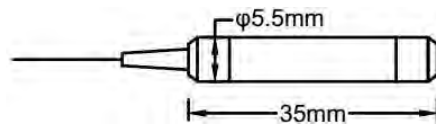
## Applications

Fiber Optic Instruments  
 Fiber Sensors  
 Fiber Lasers  
 Coherent Detecting

## Specifications

Parameters	Unit	Value	
Center Wavelength	nm	1310 or 1550	1064
Operating Wavelength Width	nm	±15	±5
Max. Insertion Loss	dB	0.6	0.8
Min. Extinction Ratio at 23 °C, only for PI	dB	20	
Max. Polarization Mode Dispersion	ps	0.05	
Max. Power Handling	mW	500	
Max. Tensile Load	N	5	
Package Dimension	mm	Φ5.5*35 Steel tube (bare fiber,0.9mm loose tube)	
Operating Temperature	°C	-5~+70	
Storage Temperature	°C	-40~+85	

## Package Dimension



## Ordering Information

PMFM-A/B/C/D/E/F

A	-Center Wavelength:	1550=1550nm,1310=1310nm,.....,0850=850nm
B	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
C	-Package Dimension:	0=φ5.5x35mm, S=Specified
D	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
E	-Fiber Length:	0=0.8m,1=1 m
F	-Connector Type:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# PM Fiber Patchcord

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability  
 High Stability

## Applications

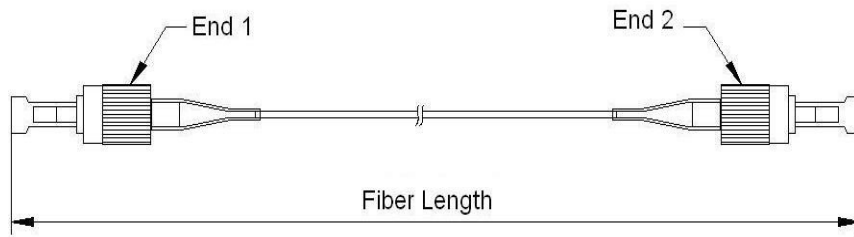
Optical Fiber Amplifiers  
 Test Instrument  
 Fiber Sensor  
 Research  
 Fiber Laser

## Specifications

Parameter	Unit	Value			
Connector Type	-	FC, SC, LC, MU			
Center Wavelength	nm	1310/1550	980/1060	850	780
Max. Insertion Loss	nm	0.3	0.5	0.8	0.8
Min. Extinction Ratio at 23°C	dB	23	23	22	22
Min. Return loss	UPC Type	dB	50		
	APC Type	dB	60		
Fiber Type	-	PM Panda fiber			
Key Orientation	-	Slow Axis			
Tolerance for Axis Alignment	deg	±3			
Operating Temperature	°C	-20~+70			
Storage Temperature	°C	-40~+85			

The default connector key is aligned to slow axis.

## Package Dimensions



Key Orientation:

Slow Axis



Fast Axis



## Ordering Information

PMJP-A/B/C/D/E/F/G

A	-Center Wavelength:	1550=1550nm, 1310=1310nm, ....., 0850=850nm
B	-Key Orientation:	S=Slow axis, F=Fast axis
C	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
D	-Connector for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
E	-Connector for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
F	-Pigtail Type:	0=250µm bare fiber, 1=900µm loose tube, 2=2.0mm loose tube, 3=3.0mm loose tube
G	-Fiber Length:	00=0.8m, 01=1m, 20=20m



# Polarization Maintaining Fused Type WDM

## Features

High Extinction Ratio  
 High Isolation  
 Low Insertion Loss  
 High stability & Reliability

## Applications

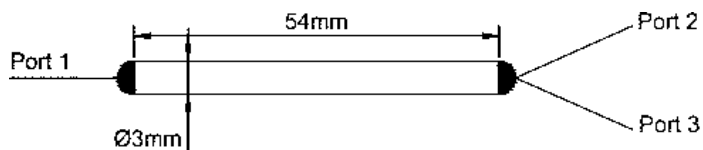
Testing Instruments  
 Coherent Communication  
 EDFA  
 Fiber Sensor

## Specifications

Parameter	Unit	Value			
Type	/	980/1550	1064/1550	980/1064	
Operating Bandwidth	nm	±15			
Max. Insertion Loss	Signal Port	dB	0.7	0.7	0.8
	Pump Port	dB	0.7	0.7	0.8
Min. Extinction Ratio	dB	20	20	18	
Min. Isolation	dB	18	18	13	
Min. Directivity	dB	55			
Max. Return Loss	dB	50			
Max. Optical Power(CW)	W	3			
Fiber Type	-	PM Panda Fiber			
Package Dimension	mm	φ3*54 steel tube(bare fiber,0.9mm loose tube), 90*20*10(0.9mm/2.0mm/3.0mm loose tube)			
Operating Temperature	°C	-40~+85			
Storage Temperature	°C	-40~+85			

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimension



## Ordering Information

PMFUWDM-A/B/C/D/E/F/G

A	-Wavelength:	9815=980/1550, 9806=980/1064, 0655=1064/1550
B	-Type:	1=1x2
C	-Fiber type	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
D	-Pigtail type:	0=φ3.0x54mm
E	-Pigtail type:	0=250μm bare fiber, 1=900μm loose tube, 2=2.0mm loose tube, 3=3.0mm loose tube
F	-Fiber length:	0=0.8m, 1=1m
G	-Connector type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC

# PM FWDM Device(T1550R980)

## Features

Low Insertion Loss  
High Return Loss  
High Reliability & Stability

## Applications

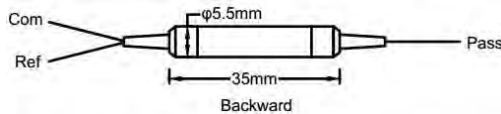
CATV System  
CWDM/DWDM Module  
EPon/Gpon Networks

## Specifications

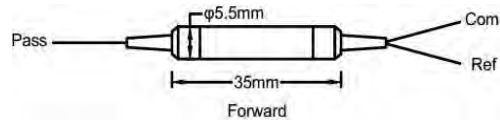
Parameters	Unit	Values
Type	nm	5598
Transmission Wavelength	nm	1520~1580
Reflection Wavelength	nm	960~990
Max.Insertion Loss of Transmission Channel	dB	0.7
Max.Insertion Loss of Reflection Channel	dB	0.5
Min.Transmission Isolation@Reflection Wavelength	dB	30
Min.Reflection Isolation@Transmission Wavelength	dB	15
Max.Channel Flatness	dB	0.4
Min.Extinction Ratio at 23 °C	dB	18
Max. Wavelength Thermal Stability	nm/ °C	0.003
Max. Insertion Loss Thermal Stability	dB/ °C	0.005
Min.Return Loss	N	50
Max.Power Handling (CW)	mW	300
Operating Temperature	°C	0~+70
Storage Temperature	°C	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Signal Route: Com to Pass  
Pump Route: Ref to Com



Signal Route: Pass to Com  
Pump Route: Ref to Com

## Ordering Information

PMFWDM-A/B/C/D/E/F/G/H/I

A	-Operating Wavelength:	5548=T1550nm/R1480nm, 5598=T1550nm/R980nm
B	-Pump Type:	F=Forward, B=Backward
C	-Axis Alignment for Signal Route:	B=Both Axis Working, F=Slow Axis Working, Fast Axis Blocked
D	-Fiber Type for Com & Pass:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Fiber Type for Ref	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m, 1=1m
I	-Connector for Com, Ref, Pass:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC

# PM FWDM Device(T1550R1064)

## Features

Low Insertion Loss  
High Return Loss  
High Reliability & Stability

## Applications

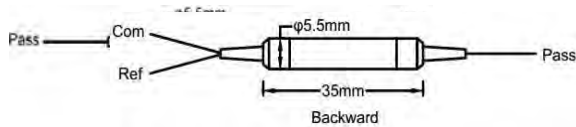
CATV System  
CWDM/DWDM Module  
EPon/Gpon Networks

## Specifications

Parameters	Unit	Values
Type	nm	5506
Transmission Wavelength	nm	1520~1580
Reflection Wavelength	nm	1020~1080
Max.Insertion Loss of Transmission Channel	dB	0.8
Max.Insertion Loss of Reflection Channel	dB	0.6
Min.Transmission Isolation@Reflection Wavelength	dB	25
Min.Reflection Isolation@Transmission Wavelength	dB	15
Max.Channel Flatness	dB	0.4
Min.Extinction Ratio at 23 °C	dB	18
Max. Wavelength Thermal Stability	nm/ °C	0.003
Max. Insertion Loss Thermal Stability	dB/ °C	0.005
Min.Return Loss	N	50
Max.Power Handling (CW)	mW	300
Operating Temperature	°C	0~+70
Storage Temperature	°C	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



Signal Route: Com to Pass Pump Route: Ref to Com

Signal Route: Pass to Com Pump

Route: Ref to Com

## Ordering Information

PMFWDM-A/B/C/D/E/F/G/H/I

A	-Operating Wavelength:	5506=T1550nm/R1064nm, 5598=T1550nm/R980nm
B	-Pump Type:	F=Forward, B=Backward
C	-Axis Alignment for Signal Route:	B=Both Axis Working, F=Slow Axis Working, Fast Axis Blocked
D	-Fiber Type for Com & Pass:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Fiber Type for Ref	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m, 1=1m
I	-Connector for Com,Ref, Pass:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC

# 1550nm/1310nm/1064nm PM Faraday Mirror

## Features

Low Insertion Loss  
 High Return Loss  
 High Reliability  
 High Stability  
 Research

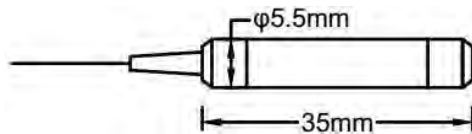
## Applications

Fiber Optic Instruments  
 Fiber Sensors  
 Fiber Lasers  
 Coherent Detecting

## Specifications

Parameters	Unit	Value	
Center Wavelength	nm	1310 or 1550	1064
Operating Wavelength Width	nm	±15	±5
Max. Insertion Loss	dB	0.6	3.0
Faraday Rotation Angle for CWL	deg	45	
Max. Rotation Angle Tolerance at 23 °C for CWL	deg	±3	
Min. Extinction Ratio at 23 °C, only for PM	dB	20	
Max. Polarization Mode Dispersion	ps	0.05	
Max. Power Handling	mW	500	
Max. Tensile Load	N	5	
Package Dimension	mm	φ5.5x35mm steel tube (bare fiber or 900um loose tube)	
Operating Temperature	°C	-5~+70	
Storage Temperature	°C	-40~+85	

## Package Dimensions



## Ordering Information

PMFRM- A/B/C/D/E/F/G

A	-Center Wavelength:	1550=1550nm,1310=1310nm, .....,0850=850nm
B	-Rotating Angle:	1=45°, 2=90°
C	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
D	-Package Dimension:	0=φ5.5x35mm, S=Specified
E	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
F	-Fiber Length:	0=0.8m,1=1m
G	-Connector Type:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# Ultra-Low Splitting Ratio Fused Type PM Coupler

## Features

Both Axis Working  
 Low Polarization Dependent Loss  
 Low Insertion Loss  
 High stability & Reliability

## Applications

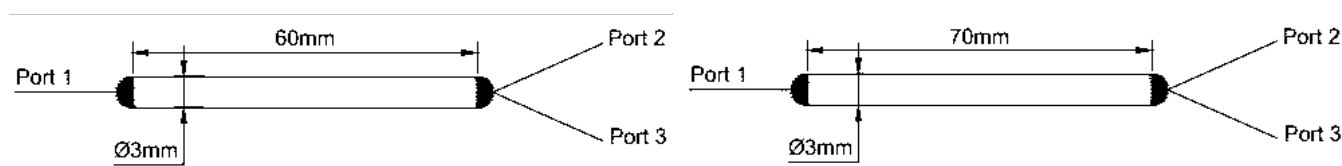
Fiber Gyroscope  
 Coherent Communication  
 Power Monitor  
 Fiber Sensor

## Specifications

Parameter	Unit	Value
Grade	/	P A
Operating Wavelength	nm	780, 850, 980, 1064, 1310, 1550, 1570, 1625, 1950, 2000
Operating Bandwidth	nm	±15
Max. Insertion Loss(Through Port)	dB	0.15
Max. Insertion Loss	0.1% Tap Port	30±3 30±4
	0.01% Tap Port	40±4 40±5
	0.001% Tap Port	50±5 50±6
Max. Excess Loss	dB	0.8 1.0
Min. Extinction Ratio	dB	18 16
Min. Directivity	dB	55
Max. Return Loss	dB	50
Max. Optical Power(CW)	W	5
Fiber Type	-	PM Panda Fiber
Package Dimension	mm	φ3*60(bare fiber), φ3*70(0.9mm loose tube), 90*20*10(0.9mm/2.0mm/3.0mm loose tube)
Operating Temperature	°C	-40~+85
Storage Temperature	°C	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimension



## Ordering Information

PMULFUC-A/B/C/D/E/F/G/H/I

A	-Wavelength:	980=980nm, 1064=1064nm, 1310=1310nm, 1550=1550nm
B	-Grade	P=Grade P, A=Grade A
C	-Port Type:	1=1x2, 2=2x2
D	-Tap Ratio	3=0.1%, 4=0.01%, 5=0.001%
E	-Fiber type	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	Package Dimension:	0=φ3.0x60mm, 1=φ3.0x70mm
G	-Pigtail type:	0=250μm bare fiber, 1=900μm loose tube, 2=2.0mm loose tube, 3=3.0mm loose tube
H	-Fiber length:	0=0.8m, 1=1m
I	-Connector type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC

# PM Manual Variable Optical Attenuator

## Features

High Precision  
Wide Attenuation Range

## Applications

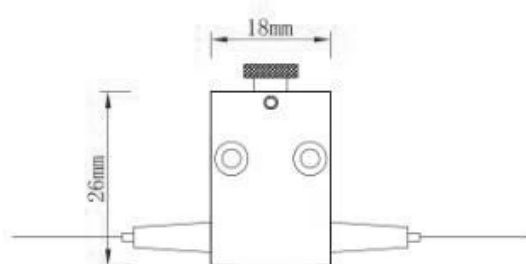
Optical Communication Systems Test  
Optics Laboratory Low Insertion Loss

## Specifications

Parameter	Unit	Value		
Center Wavelength	nm	1310	1550	1064
Operating Wavelength Range	nm	±40	±40	±20
Attenuation Range	dB	0.6~60	0.6~60	0.6~60
Max. Insertion Loss	dB	0.6	0.6	0.6
Min. Return Loss	dB	50		
Adjustment Precision	dB	0.02		
Min. Extinction Ratio at 23°C	dB	20		
Max. Power Handling	mW	500		
Operating Temperature	°C	0 ~ +70		
Storage Temperature	°C	-40~+85		
Package Dimensions	mm	26x18x8		

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



## Ordering Information

PMMVOA-A/B/C/D/E/F/G

A	-Center Wavelength:	1550=1550nm, 1310=1310nm, ..... , 850=850nm
B	-Axis Alignment	B=Both Axis Working, F=Slow Axis Working, Fast Axis Blocked
C	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
D	-Package Dimension:	0=26x18x8mm, S=Specified
E	-Pigtail Type:	0=250µm bare fiber, 1=900µm loose tube
F	-Fiber Length:	0=0.8m, 1=1m
G	-Connector for In & Out:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC

# 1064nm PM Fiber Circulator (Fast axis blocked)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High Extinction Ratio High Reliability & Stability

## Applications

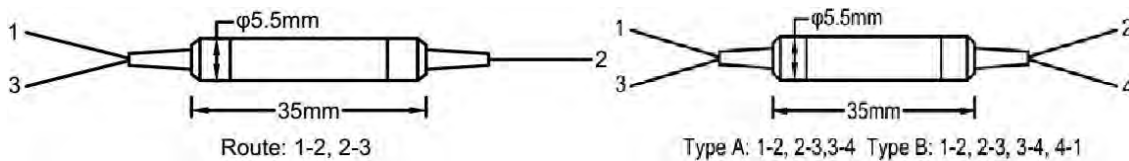
EDFA & Raman Amplifier  
 Fiber Sensor  
 Fiber Instrument

## Specifications

Parameter	Unit	Value					
Type	-	Type A			Type B		
Port Type	-	3 Port	4 Port	3 Port	4 Port	3 Port	4Port
Center Wavelength	nm	1310 or 1550		1310 or 1550		1064	
Operating Wavelength Range	nm	±30		±20		±5	
Typ. Insertion Loss at 23 °C	dB	0.7	1.1	0.6	1.0	1.8	2.2
Max. Insertion Loss at 23 °C	dB	0.9	1.3	0.8	1.2	2.1	2.5
Typ. Peak Isolation 23 °C	dB	46		30		30	
Min. Isolation at 23 °C	dB	40		20		25	
Min. Extinction Ratio at 23 °C	dB	22		20		20	
Min. Cross Talk	dB	50					
Min. Return Loss	dB	50					
Max. Optical Power(CW)	mW	300					
Max. Tensile Load	N	5					
Package Dimension	mm	Φ5.5*35 mm steel tube (bare fiber, 900um loose tube )					
Operating Temperature	°C	-5~+70					
Storage Temperature	°C	-40~+85					

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



## Ordering Information

PMCIR- A/B/C/D/E/F/G/H/I

A	-Center Wavelength:	1550=1550nm,1310=1310nm, 1064=1064nm
B	-Port Type:	3=3-Port, 4=4-Port
C	-Stage:	A=Type A, B= Type B
D	-Axis Alignment:	F=Slow axis working, Fast axis blocked
E	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m,1=1m
I	-Connector for Port 1,2,3,4:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# 1310nm PM Fiber Circulator (Fast axis blocked)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High Extinction Ratio High Reliability & Stability

## Applications

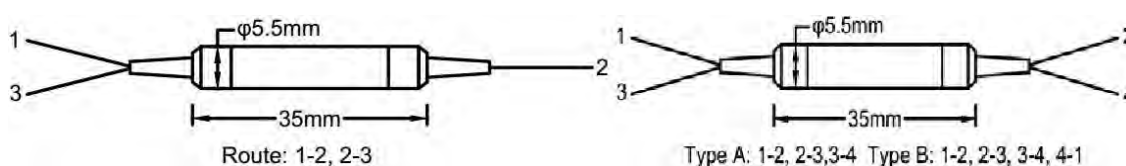
EDFA & Raman Amplifier  
 Fiber Sensor  
 Fiber Instrument

## Specifications

Parameter	Unit	Value					
Type	-	Type A			Type B		
Port Type	-	3 Port	4 Port	3 Port	4 Port	3 Port	4Port
Center Wavelength	nm	1310 or 1550		1310 or 1550		1064	
Operating Wavelength Range	nm	±30		±20		±5	
Typ. Insertion Loss at 23°C	dB	0.7	1.1	0.6	1.0	1.8	2.2
Max. Insertion Loss at 23°C	dB	0.9	1.3	0.8	1.2	2.1	2.5
Typ. Peak Isolation 23°C	dB	46		30		30	
Min. Isolation at 23°C	dB	40		20		25	
Min. Extinction Ratio at 23°C	dB	22		20		20	
Min. Cross Talk	dB	50					
Min. Return Loss	dB	50					
Max. Optical Power(CW)	mW	300					
Max. Tensile Load	N	5					
Package Dimension	mm	Φ5.5*35 mm steel tube (bare fiber, 900um loose tube )					
Operating Temperature	°C	-5~+70					
Storage Temperature	°C	-40~+85					

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



## Ordering Information

PM CIR- A/B/C/D/E/F/G/H/I

A	-Center Wavelength:	1550=1550nm, 1310=1310nm
B	-Port Type:	3=3-Port, 4=4-Port
C	-Stage:	A=Type A, B= Type B
D	-Axis Alignment:	F=Slow axis working, Fast axis blocked
E	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m, 1=1m
I	-Connector for Port 1,2,3,4:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None



# 1550nm PM Fiber Circulator (both axis working)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High Extinction Ratio High Reliability & Stability

## Applications

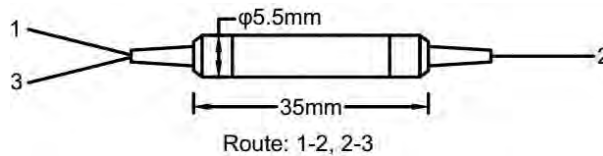
EDFA & Raman Amplifier  
 Fiber Sensor  
 Fiber Instrument

## Specifications

Parameters	Unit	Values	
Grade	-	P	A
Center Wavelength	nm	1550	
Bandwidth	nm	±30	
Peak Isolation at 23°C	dB	50	
Min.Isolation at 23°C	dB	40	
Typ. Insertion Loss at 23°C	dB	0.6	0.8
Max.Insertion Loss at 23°C	dB	0.8	1.0
Min.Extinction Ratio	dB	18	
Min.Return Loss	dB	50	
Min.Directivity	dB	50	
Power Handling	mW	300	
Package Dimension	mm	Φ5.5*35 mm steel tube (bare fiber, 900um loose tube )	
Operating Temperature	°C	0~+60	
Storage Temperature	°C	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



## Ordering Information

PM CIR- A/B/C/D/E/F/G/H/I

A	-Center Wavelength:	1550=1550nm
B	-Port Type:	3=3-Port, 4=4-Port
C	-Grade:	P=Perfect, A=A grade
D	-Axis Alignment:	B=Both axis working
E	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m, 1=1m
I	-Connector for Port 1,2,3:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None

# 1550nm PM Fiber Circulator (Fast axis blocked)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High Extinction Ratio High Reliability & Stability

## Applications

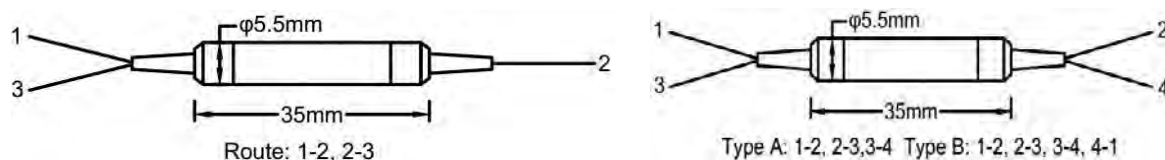
EDFA & Raman Amplifier  
 Fiber Sensor  
 Fiber Instrument

## Specifications

Parameter	Unit	Value			
Type	-	Type A			Type B
Port Type	-	3 Port	4 Port	3 Port	4 Port
Center Wavelength	nm	1310 or 1550		1310 or 1550	
Operating Wavelength Range	nm	±30		±20	±5
Typ. Insertion Loss at 23°C	dB	0.7	1.1	0.6	1.0
Max. Insertion Loss at 23°C	dB	0.9	1.3	0.8	1.2
Typ. Peak Isolation 23°C	dB	46		30	30
Min. Isolation at 23°C	dB	40		20	25
Min. Extinction Ratio at 23°C	dB	22		20	20
Min. Cross Talk	dB	50			
Min. Return Loss	dB	50			
Max. Optical Power(CW)	mW	300			
Max. Tensile Load	N	5			
Package Dimension	mm	Φ5.5*35 mm steel tube (bare fiber, 900um loose tube )			
Operating Temperature	°C	-5~+70			
Storage Temperature	°C	-40~+85			

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Package Dimensions



## Ordering Information

PM CIR- A/B/C/D/E/F/G/H/I

A	-Center Wavelength:	1550=1550nm, 1310=1310nm
B	-Port Type:	3=3-Port, 4=4-Port
C	-Stage:	A=Type A, B= Type B
D	-Axis Alignment:	F=Slow axis working, Fast axis blocked
E	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m, 1=1m
I	-Connector for Port 1,2,3,4:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None

# 850nm In-line Polarizer

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability  
 High Stability

## Applications

Communication Systems  
 Test Instrument  
 Fiber Sensor  
 Research

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	850
Operating Wavelength Range	nm	±10
Typ. Insertion Loss at 23℃	dB	0.8
Max. Insertion Loss at 23℃	dB	1.0
Min. Return Loss	dB	50
Typ. Extinction Ratio at 23℃	dB	28
Min. Extinction Ratio at 23℃	dB	25
Fiber Type for Input & Output	/	SM-SM or SM-PM or PM to PM
Max. Optical Power(CW)	mW	300
Max. Tensile Load	N	5
Package Dimension	mm	Φ5.5*35 Steel tube (bare fiber,0.9mm loose tube)
Operating Temperature	℃	-5~+70
Storage Temperature	℃	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Ordering Information

ILP- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	0850=850nm
B	-Fiber Type Option:	1=SM-SM, 2=SM-PM, 3=PM-PM
C	-Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, S=Specified
D	-Fiber Type for Input:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Fiber Type for Output:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m,1=1m, S=Specified
I	-Connector Type for Input:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None
J	-Connector Type for Output:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# 980nm In-line Polarizer

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability  
 High Stability

## Applications

Communication Systems  
 Test Instrument  
 Fiber Sensor  
 Research

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	980
Operating Wavelength Range	nm	±10
Typ. Insertion Loss at 23 °C	dB	0.7
Max. Insertion Loss at 23 °C	dB	0.9
Min. Return Loss	dB	50
Typ. Extinction Ratio at 23 °C	dB	28
Min. Extinction Ratio at 23 °C	dB	25
Fiber Type for Input & Output	/	SM-SM or SM-PM or PM to PM
Max. Optical Power(CW)	mW	300
Max. Tensile Load	N	5
Package Dimension	mm	Φ5.5*35 Steel tube (bare fiber,0.9mm loose tube)
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Ordering Information

ILP- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	0980=980nm
B	-Fiber Type Option:	1=SM-SM, 2=SM-PM, 3=PM-PM
C	-Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, S=Specified
D	-Fiber Type for Input:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Fiber Type for Output:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m,1=1m, S=Specified
I	-Connector Type for Input:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None
J	-Connector Type for Output:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# 1064nm In-line Polarizer

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability  
 High Stability

## Applications

Communication Systems  
 Test Instrument  
 Fiber Sensor  
 Research

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±30
Typ. Insertion Loss at 23 °C	dB	0.4
Max. Insertion Loss at 23 °C	dB	0.6
Min. Return Loss	dB	50
Typ. Extinction Ratio at 23 °C	dB	30
Min. Extinction Ratio at 23 °C	dB	28
Fiber Type for Input & Output	/	SM-SM or SM-PM or PM to PM
Max. Optical Power(CW)	mW	300
Max. Tensile Load	N	5
Package Dimension	mm	Φ5.5*35 Steel tube (bare fiber or 0.9mm loose tube)
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Ordering Information

ILP- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1064=1064nm
B	-Fiber Type Option:	1=SM-SM, 2=SM-PM, 3=PM-PM
C	-Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, S=Specified
D	-Fiber Type for Input:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Fiber Type for Output:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m,1=1m, S=Specified
I	-Connector Type for Input:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None
J	-Connector Type for Output:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# 1310nm In-line Polarizer

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability  
 High Stability

## Applications

Communication Systems  
 Test Instrument  
 Fiber Sensor  
 Research

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	1310
Operating Wavelength Range	nm	±50
Typ. Insertion Loss at 23 °C	dB	0.3
Max. Insertion Loss at 23 °C	dB	0.5
Min. Return Loss	dB	50
Typ. Extinction Ratio at 23 °C	dB	30
Min. Extinction Ratio at 23 °C	dB	28
Fiber Type for Input & Output	/	SM-SM or SM-PM or PM to PM
Max. Optical Power(CW)	mW	300
Max. Tensile Load	N	5
Package Dimension	mm	Φ5.5*35 Steel tube (bare fiber,0.9mm loose tube)
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Ordering Information

ILP- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1310=1310nm
B	-Fiber Type Option:	1=SM-SM, 2=SM-PM, 3=PM-PM
C	-Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, S=Specified
D	-Fiber Type for Input:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Fiber Type for Output:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m,1=1m, S=Specified
I	-Connector Type for Input:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None
J	-Connector Type for Output:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# 1550nm In-line Polarizer

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Reliability  
 High Stability

## Applications

Communication Systems  
 Test Instrument  
 Fiber Sensor  
 Research

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	1550
Operating Wavelength Range	nm	±50
Typ. Insertion Loss at 23℃	dB	0.3
Max. Insertion Loss at 23℃	dB	0.5
Min. Return Loss	dB	50
Typ. Extinction Ratio at 23℃	dB	30
Min. Extinction Ratio at 23℃	dB	28
Fiber Type for Input & Output	/	SM-SM or SM-PM or PM to PM
Max. Optical Power(CW)	mW	300
Max. Tensile Load	N	5
Package Dimension	mm	Φ5.5*35 Steel tube (bare fiber,0.9mm loose tube)
Operating Temperature	℃	-5~+70
Storage Temperature	℃	-40~+85

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default connector key is aligned to slow axis.

## Ordering Information

ILP- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1550=1550nm
B	-Fiber Type Option:	1=SM-SM, 2=SM-PM, 3=PM-PM
C	-Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, S=Specified
D	-Fiber Type for Input:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Fiber Type for Output:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m,1=1m, S=Specified
I	-Connector Type for Input:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None
J	-Connector Type for Output:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None

# 780nm PM Isolator (TGG Based)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High stability & Reliability

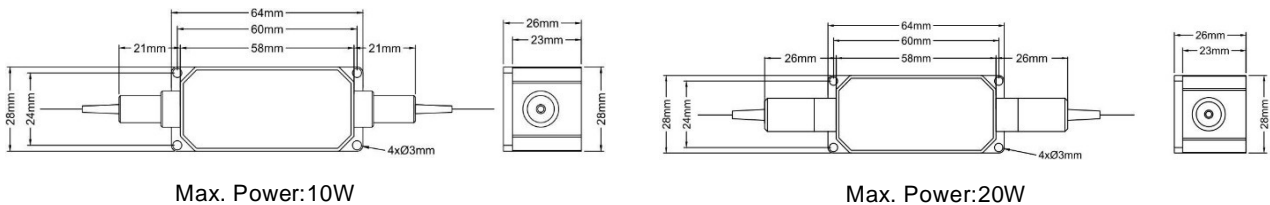
## Applications

PM Fiber Amplifier  
 Testing Instrument  
 Mopa Fiber Laser  
 Fiber Laser

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	780
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at 23°C	dB	30
Min. Isolation at 23°C	dB	25
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.0
Min. Extinction Ratio at 23°C, only for PM	dB	20
Min. Return Loss(Input /Output)	dB	45
Max. Average Optical Power	W	20 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Package Dimension	mm	58x28x26
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

## Package Dimensions



## Ordering Information

PMIS- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1064=1064nm, 1030=1030nm, 0980=980nm, 0850=850nm, 0780=780nm
B	-Core Type:	S=Single-Core
C	-Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, B=Both of axis working
D	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Package Dimension:	0=58x28x26mm, S=Specified
F	-Pigtail Type:	0=250µm bare fiber, 1=900µm loose tube
G	-Fiber Length:	0=0.8m, 1=1m
H	-Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
I	-Average Power:	00=500mW, 01=1W, 02=2W,....., 05=5W, 10=10W
J	-Peak Power:	10=10kW, 20=20kW

Note: 1. With connector, The Max. Power can be only 1W.



# 850nm PM Isolator (TGG Based)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High stability & Reliability

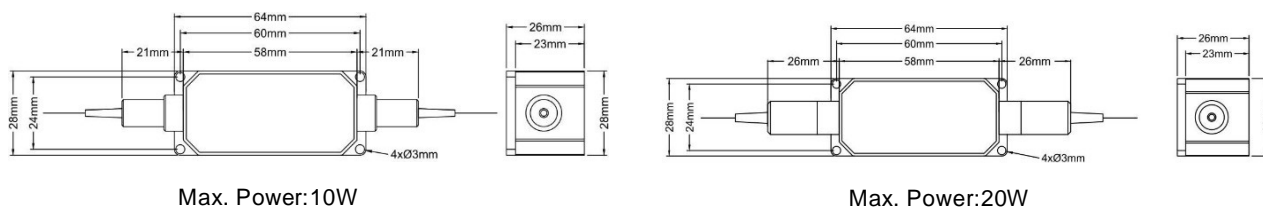
## Applications

PM Fiber Amplifier  
 Testing Instrument  
 Mopa Fiber Laser  
 Fiber Laser

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	850
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at 23°C	dB	30
Min. Isolation at 23°C	dB	25
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.0
Min. Extinction Ratio at 23°C, only for PM	dB	20
Min. Return Loss(Input /Output)	dB	45
Max. Average Optical Power	W	20 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Package Dimension	mm	58x28x26
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

## Package Dimensions



## Ordering Information

PMIS- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1064=1064nm, 1030=1030nm, 0980=980nm, 0850=850nm, 0780=780nm
B	-Core Type:	S=Single-Core
C	-Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, B=Both of axis working
D	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Package Dimension:	0=58x28x26mm, S=Specified
F	-Pigtail Type:	0=250µm bare fiber, 1=900µm loose tube
G	-Fiber Length:	0=0.8m, 1=1m
H	-Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
I	-Average Power:	00=500mW, 01=1W, 02=2W,..... , 05=5W, 10=10W
J	-Peak Power:	10=10kW, 20=20kW

Note: 1. With connector, The Max. Power can be only 1W.

# 980nm PM Isolator (TGG Based)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High stability & Reliability

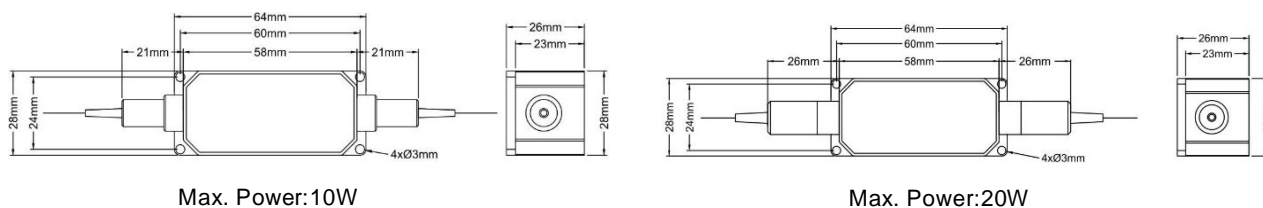
## Applications

PM Fiber Amplifier  
 Testing Instrument  
 Mopa Fiber Laser  
 Fiber Laser

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	980
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at 23°C	dB	30
Min. Isolation at 23°C	dB	25
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.0
Min. Extinction Ratio at 23°C, only for PM	dB	20
Min. Return Loss(Input /Output)	dB	45
Max. Average Optical Power	W	20 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Package Dimension	mm	58x28x26
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

## Package Dimensions



## Ordering Information

PMIS- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1064=1064nm, 1030=1030nm, 0980=980nm, 0850=850nm, 0780=780nm
B	-Core Type:	S=Single-Core
C	-Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, B=Both of axis working
D	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	-Package Dimension:	0=58x28x26mm, S=Specified
F	-Pigtail Type:	0=250µm bare fiber, 1=900µm loose tube
G	-Fiber Length:	0=0.8m, 1=1m
H	-Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
I	-Average Power:	00=500mW, 01=1W, 02=2W,..... , 05=5W, 10=10W
J	-Peak Power:	10=10kW, 20=20kW

Note: 1. With connector, The Max. Power can be only 1W.

# 1030nm PM Isolator (TGG Based)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High stability & Reliability

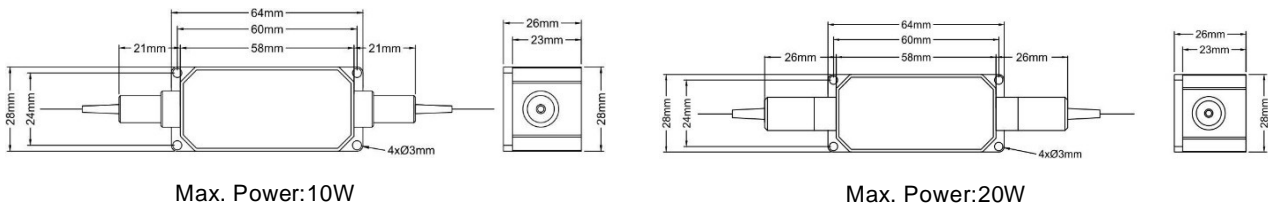
## Applications

PM Fiber Amplifier  
 Testing Instrument  
 Mopa Fiber Laser  
 Fiber Laser

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	1030
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at 23°C	dB	30
Min. Isolation at 23°C	dB	25
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.0
Min. Extinction Ratio at 23°C, only for PM	dB	20
Min. Return Loss(Input /Output)	dB	45
Max. Average Optical Power	W	20 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Package Dimension	mm	58x28x26
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

## Package Dimensions



Max. Power:10W

Max. Power:20W

## Ordering Information

PMIS- A/B/C/D/E/F/G/H/I/J

A	Center Wavelength:	1064=1064nm, 1030=1030nm, 0980=980nm, 0850=850nm, 0780=780nm
B	Core Type:	S=Single-Core
C	Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, B=Both of axis working
D	Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	Package Dimension:	0=58x28x26mm, S=Specified
F	Pigtail Type:	0=250µm bare fiber, 1=900µm loose tube
G	Fiber Length:	0=0.8m, 1=1m
H	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
I	Average Power:	00=500mW, 01=1W, 02=2W,..... , 05=5W, 10=10W
J	Peak Power:	10=10kW, 20=20kW

Note: 1.With connector, The Max. Power can be only 1W.

# 1064nm PM Isolator (TGG Based)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High stability & Reliability

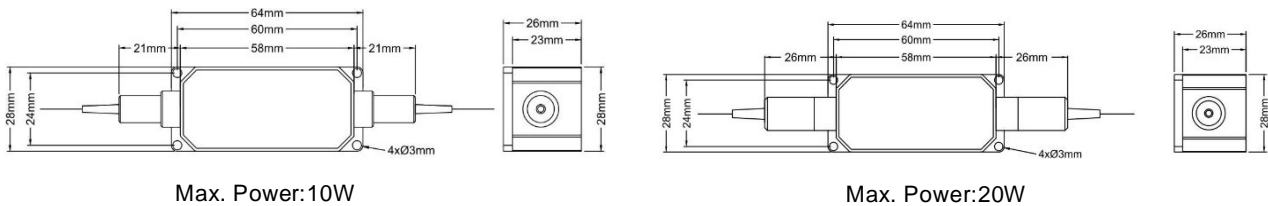
## Applications

PM Fiber Amplifier  
 Testing Instrument  
 Mopa Fiber Laser  
 Fiber Laser

## Specifications

Parameters	Unit	Value
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at 23°C	dB	30
Min. Isolation at 23°C	dB	25
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.0
Min. Extinction Ratio at 23°C, only for PM	dB	20
Min. Return Loss(Input /Output)	dB	45
Max. Average Optical Power	W	20 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Package Dimension	mm	58x28x26
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

## Package Dimensions



Max. Power:10W

Max. Power:20W

## Ordering Information

PMIS- A/B/C/D/E/F/G/H/I/J

A	Center Wavelength:	1064=1064nm, 1030=1030nm, 0980=980nm, 0850=850nm, 0780=780nm
B	Core Type:	S=Single-Core
C	Axis Alignment for PM:	F=Slow axis working, Fast axis blocked, B=Both of axis working
D	Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
E	Package Dimension:	0=58x28x26mm, S=Specified
F	Pigtail Type:	0=250µm bare fiber, 1=900µm loose tube
G	Fiber Length:	0=0.8m, 1=1m
H	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
I	Average Power:	00=500mW, 01=1W, 02=2W,..... , 05=5W, 10=10W
J	Peak Power:	10=10kW, 20=20kW

Note: 1.With connector, The Max. Power can be only 1W.

# 1064nm PM Tap Isolator

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Isolation

## Applications

Compact Fiber Amplifiers  
 Compact Fiber Optical System  
 Fiber Laser  
 Fiber Sensor

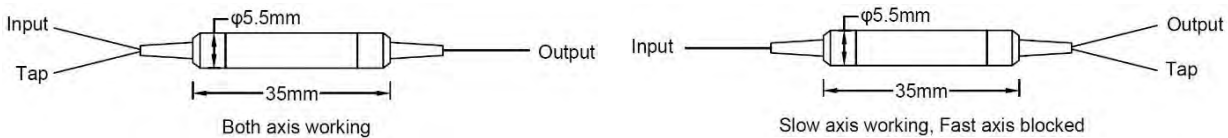
## Specifications

Parameter	Unit	Value	
		Single	Dual
Stage	-	Single	Dual
Operating Wavelength Range	nm	1064	
Max. Excess Loss	dB	2.2	3.5
Signal Tap Ratio	%	1±0.2%, 5±1%, 50±2%	1±0.2%, 5±1%, 50±2%
Typ. Peak Isolation	dB	40	52
Min. Isolation at 23℃	dB	28	45
Min. Extinction Ratio at 23℃	dB	20	
Min. Return Loss	dB	50	
Max. Optical Power(CW)	mW	500	
Max. Tensile Load	N	5	
Package Dimension	mm	Φ5.5*35 mm steel tube (bare fiber, 900um loose tube )	
Operating Temperature	℃	0~+70	
Storage Temperature	℃	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower.

The default connector key is aligned to slow axis.

## More Details



## Options for Axis Alignment

### Option 1,

Input to Output: Fast axis blocked,  
 Input to Tap: Both axis working,

### Option 2,

Input to Output: Both axis working,  
 Input to Tap: Both axis working,

### Option 3,

Input to Output: Both axis working,  
 Input to Tap: PM to SM, Polarization Insensitive

### Option 4,

Input to Output: Fast axis blocked,  
 Input to Tap: Fast axis blocked,

### Option 5,

Input to Output: Fast axis blocked,  
 Input to Tap: PM to SM, Polarization Sensitive

## Ordering Information

PMTIS- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1064=1064nm,.....
B	-Stage:	S=Single-core stage, D=Dual-core stage
C	-Tap ratio:	01=1%, 02=2%, ....., 50=50%
D	-Axis Alignment:	1=Option 1, 2=Option 2, 3=Option 3, 4=Option 4, 5=Option 5
E	-Fiber Type for In & Out:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	Fiber Type for Tap:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, S=Specified
H	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
I	-Fiber Length:	0=0.8m, 1=1m
J	-Connector for In, Out, Tap:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None

# 1310nm PM Optical Isolator

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Isolation  
 High Stability & Reliability

## Applications

Communication Systems  
 Test Instrument  
 Fiber Sensor  
 Research

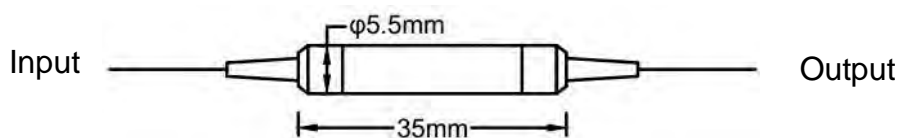
## Specifications

Parameter	Unit	Value			
		Single		Dual	
Stage	-	P	A	P	A
Grade	-	P	A	P	A
Center Wavelength	nm	1310			
Operating Wavelength Range	nm	±20			
Typ. Peak Isolation at 23°C	dB	42	40	58	55
Min. Isolation at 23°C	dB	28	26	48	45
Typ. Insertion Loss at 23°C	dB	0.4	0.5	0.5	0.6
Max. Insertion Loss at 23°C	dB	0.55	0.65	0.65	0.8
Min. Extinction Ratio at 23°C (only for Both Axis Working)	dB	20	18	20	18
Min. Extinction Ratio at 23°C (only for Fast Axis Blocked)	dB	25	23	25	23
Min. Return Loss (input/output)	dB	50/50			
Max. Optical Power(CW)	mW	500			
Max. Tensile Load	N	5			
Package Dimension	mm	Φ5.5*35 mm steel tube (bare fiber, 900um loose tube )			
Operating Temperature	°C	-5~+70			
Storage Temperature	°C	-40~+85			

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower.

The default connector key is aligned to slow axis.

## Package Dimensions



## Ordering Information

PMIS- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1310=1310nm.....
B	-Grade:	P=P grade, A=A grade
C	-Stage:	S=Single-core stage, D=Dual-core stage
D	-Axis Alignment:	F=Slow axis working, Fast axis blocked, B=Both of axis working
E	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m, 1=1m
I	-Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
J	-Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None

# 1550nm PM Optical Isolator

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Isolation  
 High Stability & Reliability

## Applications

Communication Systems  
 Test Instrument  
 Fiber Sensor  
 Research

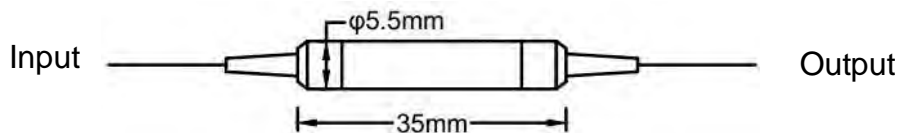
## Specifications

Parameter	Unit	Value			
		Single		Dual	
Stage	-	P	A	P	A
Grade	-	P	A	P	A
Center Wavelength	nm	1550			
Operating Wavelength Range	nm	±20			
Typ. Peak Isolation at 23°C	dB	42	40	58	55
Min. Isolation at 23°C	dB	28	26	48	45
Typ. Insertion Loss at 23°C	dB	0.4	0.5	0.5	0.6
Max. Insertion Loss at 23°C	dB	0.55	0.65	0.65	0.8
Min. Extinction Ratio at 23°C (only for Both Axis Working)	dB	20	18	20	18
Min. Extinction Ratio at 23°C (only for Fast Axis Blocked)	dB	25	23	25	23
Min. Return Loss (input/output)	dB	50/50			
Max. Optical Power(CW)	mW	500			
Max. Tensile Load	N	5			
Package Dimension	mm	Φ5.5*35 mm steel tube (bare fiber, 900um loose tube )			
Operating Temperature	°C	-5~+70			
Storage Temperature	°C	-40~+85			

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower.

The default connector key is aligned to slow axis.

## Package Dimensions



## Ordering Information

PMIS- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1550=1550nm.....
B	-Grade:	P=P grade, A=A grade
C	-Stage:	S=Single-core stage, D=Dual-core stage
D	-Axis Alignment:	F=Slow axis working, Fast axis blocked, B=Both of axis working
E	-Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Package Dimension:	0=φ5.5x35mm, S=Specified
G	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
H	-Fiber Length:	0=0.8m, 1=1m
I	-Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
J	-Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None



# 1550nm PM Tap Isolator

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Isolation

## Applications

Compact Fiber Amplifiers  
 Compact Fiber Optical System  
 Fiber Laser  
 Fiber Sensor

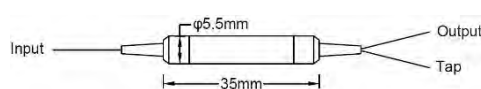
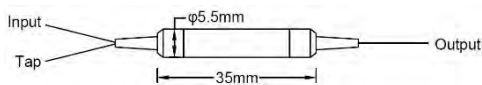
## Specifications

Parameter	Unit	Value	
		Single	Dual
Stage	-	Single	Dual
Operating Wavelength Range	nm	1530~1570	
Max. Excess Loss	dB	1.0	1.2
Signal Tap Ratio	%	1±0.2%, 5±1%, 50±2%	1±0.2%, 5±1%, 50±2%
Typ. Peak Isolation	dB	40	52
Min. Isolation at 23℃	dB	28	45
Min. Extinction Ratio at 23℃	dB	20	
Min. Return Loss	dB	50	
Max. Optical Power(CW)	mW	500	
Max. Tensile Load	N	5	
Package Dimension	mm	Φ5.5*35 mm steel tube (bare fiber, 900um loose tube )	
Operating Temperature	℃	0~+70	
Storage Temperature	℃	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower.

The default connector key is aligned to slow axis.

## More Details



## Options for Axis Alignment

### Option 1,

Input to Output: Fast axis blocked,  
 Input to Tap: Both axis working,

### Option 2,

Input to Output: Both axis working,  
 Input to Tap: Both axis working,

### Option 3,

Input to Output: Both axis working,  
 Input to Tap: PM to SM, Polarization Insensitive

### Option 4,

Input to Output: Fast axis blocked,  
 Input to Tap: Fast axis blocked,

### Option 5,

Input to Output: Fast axis blocked,  
 Input to Tap: PM to SM, Polarization Sensitive

## Ordering Information

PMTIS- A/B/C/D/E/F/G/H/I/J

A	-Center Wavelength:	1550=1550nm,.....
B	-Stage:	S=Single-core stage, D=Dual-core stage
C	-Tap ratio:	01=1%, 02=2%, ....., 50=50%
D	-Axis Alignment:	1=Option 1, 2=Option 2, 3=Option 3, 4=Option 4, 5=Option 5
E	-Fiber Type for In & Out:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	Fiber Type for Tap:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, S=Specified
H	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
I	-Fiber Length:	0=0.8m, 1=1m
J	-Connector for In, Out, Tap:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None

# PM Isolator & WDM Hybrid (T1064R980)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High Extinction Ratio High  
 Reliability & Stability

## Applications

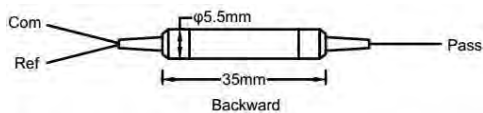
Fiber Laser  
 Fiber Amplifier  
 Testing Equipment

## Specifications

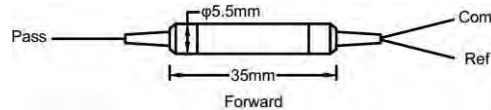
Parameter		Unit	Value	
Stage		-	Single	Dual
Signal Channel	Signal Wavelength Range	nm	1064±10	
	Max. Insertion Loss	dB	2.6	3.8
	Typ. Peak Signal Reversed Isolation, at 23°C	dB	40	52
	Min. Signal Reversed Isolation, at 23°C	dB	28	45
	Min. Isolation (Com to Pass @ Ref band Wavelength)	dB	30	
	Min. Extinction Ratio at 23°C	dB	20	
Reflection Channel	Wavelength Range	nm	960~990	
	Max. Insertion Loss	dB	0.6	
	Min. Isolation (Com to Ref @ Pass band Wavelength)	dB	15	
	Min. Extinction Ratio at 23°C	dB	18	
Min. Return Loss		dB	50	
Max. Insertion Loss Thermal Stability		dB/°C	0.005	
Max. Optical Power(CW)		mW	300	
Max. Tensile Load		N	5	
Operating Temperature		°C	-5~+70	
Storage Temperature		°C	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower.  
 The default connector key is aligned to slow axis.

## Package Dimensions



Signal Route: Com to Pass  
 Pump Route: Ref to Com



Signal Route: Pass to Com  
 Pump Route: Ref to Com

## Ordering Information

PMIWDM- A/B/C/D/E/F/G/H/I/J

A	-Operating Wavelength:	0698=1064nm Signal, 980nm Pump
B	-Stage:	S=Single-core stage, D=Dual-core stage
C	-Pump Type:	F=Forward, B=Backward
D	-Axis Alignment for Signal Route	B=Both Axis Working, F=Slow Axis Working, Fast Axis Blocked
E	-Fiber Type for Com & Pass:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Fiber Type for Ref:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, S=Specified
H	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
I	-Fiber Length:	0=0.8m, 1=1m
J	-Connector for Com, Ref, Pass:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC

# PM Isolator & WDM Hybrid (T1550R980)

## Features

Low Insertion Loss  
 High Return Loss  
 High Isolation  
 High Extinction Ratio High  
 Reliability & Stability

## Applications

Fiber Laser  
 Fiber Amplifier  
 Testing Equipment

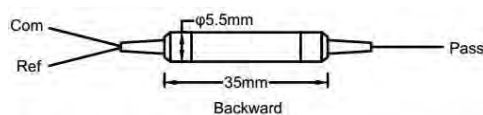
## Specifications

Parameter		Unit	Value	
Stage		-	Single	Dual
Signal Channel	Signal Wavelength Range	nm	1535~1565	
	Max. Insertion Loss	dB	0.9	1.0
	Typ. Peak Signal Reversed Isolation, at 23°C	dB	40	52
	Min. Signal Reversed Isolation, at 23°C	dB	28	45
	Min. Isolation (Com to Pass @ Ref band Wavelength)	dB	30	
	Min. Extinction Ratio at 23°C	dB	20	
Reflection Channel	Wavelength Range	nm	960~990 or 1460~1490	
	Max. Insertion Loss	dB	0.6	
	Min. Isolation (Com to Ref @ Pass band Wavelength)	dB	15	
	Min. Extinction Ratio at 23°C	dB	18	
Min. Return Loss		dB	50	
Max. Insertion Loss Thermal Stability		dB/°C	0.005	
Max. Optical Power(CW)		mW	300	
Max. Tensile Load		N	5	
Operating Temperature		°C	-5~+70	
Storage Temperature		°C	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower.

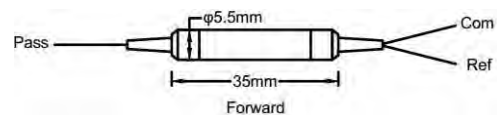
The default connector key is aligned to slow axis.

## Package Dimensions



Signal Route: Com to Pass

Pump Route: Ref to Com



Signal Route: Pass to Com

Pump Route: Ref to Com

## Ordering Information

PMIWDM-A/B/C/D/E/F/G/H/I/J

A	-Operating Wavelength:	5598=1550nm Signal, 980nm Pump
B	-Stage:	S=Single-core stage, D=Dual-core stage
C	-Pump Type:	F=Forward, B=Backward
D	-Axis Alignment for Signal Route:	B=Both Axis Working, F=Slow Axis Working, Fast Axis Blocked
E	-Fiber Type for Com & Pass:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Fiber Type for Ref	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Package Dimension:	0=φ5.5x35mm, S=Specified
H	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
I	-Fiber Length:	0=0.8m, 1=1m
J	-Connector for Com, Ref, Pass:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC

# PM Tap & Isolator & WDM Hybrid, 1064/980

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Isolation

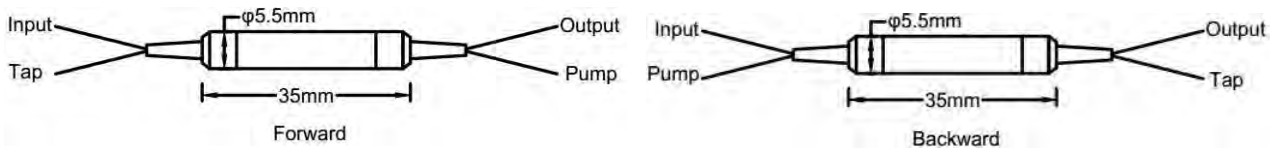
## Applications

EDFA  
 Pump Laser  
 Optics Cutting  
 Research

## Specifications

Parameter	Unit	Value	
Stage	-	Single	Dual
Signal Wavelength Range	nm	1020~1100	
Signal Wavelength	nm	1064	
Max. Excess Loss, $\lambda_c$ , at 23°C (Input to Output)	dB	2.5	3.5
Min. Signal Isolation, $\lambda_c$ , at 23°C (Output to Input)	dB	35	45
Isolation for Channels	Signal Channel	dB	
	Pump Channel	dB	
Tap Ratio	%	1~50	
Pump Wavelength Range	nm	980+-10	
Max. Insertion Loss (Pump Channel)	dB	0.7	
Min. Extinction Ratio at 23°C, only for PM Channel	dB	20	
Min. Return Loss	dB	50	
Max. Optical Power(CW)	mW	300	
Max.Tensile Load	N	5	
Operating Temperature	°C	-5~+50	
Storage Temperature	°C	-40~+85	

## Package Dimensions



### Option 1, Forward pump

Input to Tap: Both axis working  
 Input to Output: Fast axis blocked

### Option 2, Forward pump

Input to Tap: Both axis working  
 Input to Output: Both axis working

### Option 3, Backward pump

Input to Tap: Fast axis blocked  
 Input to Output: Fast axis blocked

### Option 4, Forward pump

Input to Tap: PM to SM, PI  
 Input to Output: Fast axis blocked

### Option 5, Forward pump

Input to Tap: PM to SM, PI  
 Input to Output: Both axis working

### Option 6, Backward pump

Input to Tap: PM to SM, PS  
 Input to Output: Fast axis blocked

**PI: Polarization Insensitive**

**PS: Polarization Sensitive**

## Ordering Information

PMTIWDM-A/B/C/D/E/F/G/H/I/J/K/L/M/N

A	-Operating Wavelength:	1598=T1550/R980nm, 0398=T1030/980nm
B	-Axis Alignment:	1=Option 1, 2=Option 2, 3=Option 3, 4=Option 4, 5=Option 5, 6=Option 6
C	-Core Stage:	S=Single-core Stage, D=Dual-core Stage
D	-Tap ratio:	01=1%, 02=2%, ....., 50=50%
E	-Fiber type for In & Out:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Fiber type for Pump:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Fiber type for Tap:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
H	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
I	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
J	-Fiber Length:	0=0.8m, 1=1m
K	-Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
L	-Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
M	-Connector Type for Pump:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
N	-Connector Type for Tap:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None

# PM Tap & Isolator & WDM Hybrid, 1550/980

## Features

Low Insertion Loss  
 High Return Loss  
 High Extinction Ratio  
 High Isolation

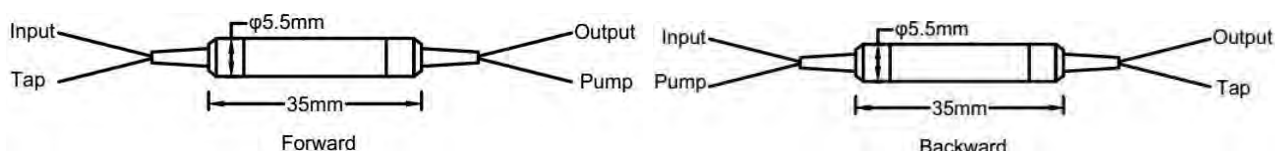
## Applications

EDFA  
 Pump Laser  
 Optics Cutting  
 Research

## Specifications

Parameter	Unit	Value	
		Single	Dual
Stage	-	Single	Dual
Signal Wavelength Range	nm	1528~1565(C Band) 1570~1605(L Band)	
Max. Excess Loss, $\lambda_c$ , at 23°C (Input to Output)	dB	1.3	1.4
Min. Signal Isolation, $\lambda_c$ , at 23°C (Output to Input)	dB	31	45
Isolation for Channels	Signal Channel	30	
	Pump Channel	12	
Tap Ratio	%	1~50	
Pump Wavelength Range	nm	980+-10	
Max. Insertion Loss (Pump Channel)	dB	0.6	
Min. Extinction Ratio at 23°C, only for PM Channel	dB	20	
Min. Return Loss	dB	50	
Max. Optical Power(CW)	mW	300	
Max. Tensile Load	N	5	
Operating Temperature	°C	-5~+50	
Storage Temperature	°C	-40~+85	

## More Details



### Option 1, Forward pump

Input to Tap: Both axis working  
 Input to Output: Fast axis blocked

### Option 2, Forward pump

Input to Tap: Both axis working  
 Input to Output: Both axis working

### Option 3, Backward pump

Input to Tap: Fast axis blocked  
 Input to Output: Fast axis blocked

### Option 4, Forward pump

Input to Tap: PM to SM, PI  
 Input to Output: Fast axis blocked

### Option 5, Forward pump

Input to Tap: PM to SM, PI  
 Input to Output: Both axis working

### Option 6, Backward pump

Input to Tap: PM to SM, PS  
 Input to Output: Fast axis blocked

**PI: Polarization Insensitive**

**PS: Polarization Sensitive**

## Ordering Information

PMTIWDM- A/B/C/D/E/F/G/H/I/J/K/L/M/N

A	-Operating Wavelength:	1598=T1550/R980nm, 0398=T1030/980nm
B	-Axis Alignment:	1=Option 1, 2=Option 2, 3=Option 3, 4=Option 4, 5=Option 5, 6=Option 6
C	-Core Stage:	S=Single-core Stage, D=Dual-core Stage
D	-Tap ratio:	01=1%, 02=2%, ....., 50=50%
E	-Fiber type for In & Out:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
F	-Fiber type for Pump:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
G	-Fiber type for Tap:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
H	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
I	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
J	-Fiber Length:	0=0.8m, 1=1m
K	-Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
L	-Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
M	-Connector Type for Pump:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None
N	-Connector Type for Tap:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None