

Company Profile >>>>>>>



Founded in 2013, **RUIK** is a manufacturer and supplier of optical passive components design mainly for various industries which include Fiber Laser, Fiber Sensing, Gyroscope, Medical Systems, Telecommunication, etc.

RUIK specialized in Polarization Maintaining (PM) fiber components, Single-mode (SM) fiber components and High Power fiber components

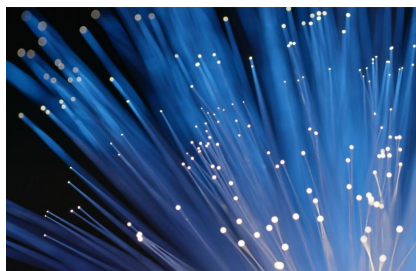
with ranging from 405nm to 2050nm, and also provides product solutions and custom devices services for customers.

What products do we produce:

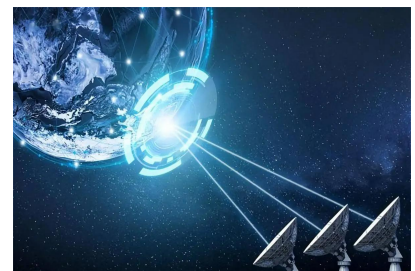
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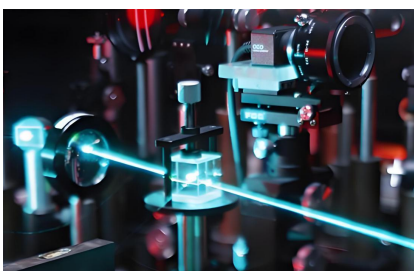
Fiber Laser



Fiber Sensing



Space Laser Communication



Test & Measurement



LIDAR



Biomedical

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405-635nm In-line Isolator

Features

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

Applications

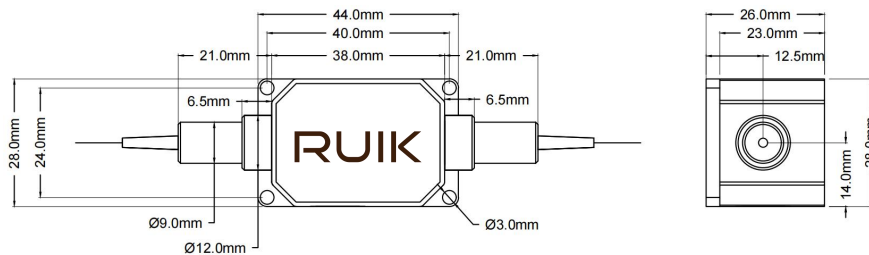
Testing Instrument
Fiber Laser
Fiber Amplifier

Specifications

Parameters	Unit	Values			
Center Wavelength	nm	405	450	532	633
Operating Wavelength Range	nm	±5			
Min. Isolation at 23°C	dB	23			
Max. Insertion Loss at 23°C	dB	2.0	2.0	1.8	1.5
Min. Extinction Ratio at 23°C	dB	18			
Min. Return Loss at 23°C (Input /Output)	dB	45			
Max. Optical Power (CW)	mW	100			
Max. Tensile Load	N	5			
Working Axis	-	Slow axis working, Fast axis blocked			
Package Dimensions	mm	44x28x26			
Operating Temperature	°C	+10~+50			
Storage Temperature	°C	0~+60			

*With connectors, the Max. handling power is 50mW only, IL is 1.5dB higher, RL is 5dB lower, and ER is 2dB lower.
*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMIS-①①①-②③-④④④-⑤⑥-⑦-⑧⑧

①①① - Center Wavelength:	405=405nm, 450=450nm, 532=532nm, 633=633nm, SSS=Specified
② - Stage:	S=Single-core
③ - Working Axis:	F=Fast axis blocked, S=Specified
④④④ - Fiber Type:	096=PM630-HP, 105=PM460-HP, 121=PM-S405-XP, SSS=Specified
⑤ - Package Dimensions:	0=44x28x26mm
⑥ - Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
⑦ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1030-1053nm In-line Isolator (Faraday Based, 50mW)

Features

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

Applications

Fiber Laser
Test Instruments
Fiber Sensor
Research

Specifications

Parameters		Unit	Values	
Stage		-	Single	Dual
Center Wavelength		nm	1030, 1040, 1053 or Specified	
Operating Wavelength Range		nm	±5	
Typ. Peak Isolation at 23°C		dB	23	38
Min. Isolation at 23°C		dB	20	35
Typ. Insertion Loss at 23°C		dB	2.8	6.0
Max. Insertion Loss at 23°C		dB	3.3	6.6
Min. Return Loss at 23°C (input/output)		dB	50/50	
Min. Extinction Ratio at 23°C	Both axis working	dB	20	
	Fast axis blocked	dB	22	
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)		dB	0.15	
Max. Optical Power (CW)		mW	50	
Max. Tensile Load		N	5	
Fiber Type		-	PM980 or HI1060	
Operating Temperature		°C	-5~+50	
Storage Temperature		°C	-40~+85	

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧ (PM fiber type)

PIIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧ (SM fiber type)

①①①①	Wavelength:	1030=1030nm, 1040=1040nm, SSSS=Specified
②	Stage:	S=Single-core, D=Dual-core
③	Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④	Fiber Type:	003=PM980, 004=Hi1060, SSS=Specified
⑤	Package Dimensions:	0=φ5.5x35mm
⑥	Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑦	Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1064nm In-line Isolator (Faraday Based, 300mW)

Features

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

Applications

MOPA Fiber Laser
Test Instruments
Fiber Laser
Research

Specifications

Parameters	Unit	Values	
Stage	-	Single	Dual
Center Wavelength	nm	1064	
Operating Wavelength Range	nm	±5	
Min. Isolation at 23°C	dB	28	45
Typ. Insertion Loss at 23°C	dB	1.5	2.4
Max. Insertion Loss at 23°C	dB	1.8	3.2
Min. Return Loss at 23°C (input/output)	dB	50/50	
Min. Extinction Ratio at 23°C	Both axis working	dB	20
	Fast axis blocked	dB	22
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15	
Max. Optical Power (CW)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	-	PM980 or HI1060	
Operating Temperature	°C	-5~+50	
Storage Temperature	°C	-40~+85	

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧ (PM fiber type)

PIIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧ (SM fiber type)

①①①① - Wavelength:	1064=1064nm, 1080=1080nm, SSS=Specified
② - Stage:	S=Single-core, D=Dual-core
③ - Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④ - Fiber Type:	003=PM980, 004=HI1060, 018=PM 10/125DCF, SSS=Specified
⑤ - Package Dimensions:	0=φ5.5x35mm
⑥ - Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑦ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1064nm In-line Isolator (2W, Faraday Based)

Features

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

Applications

Testing Instrument
MOPA Fiber Laser
Fiber Laser

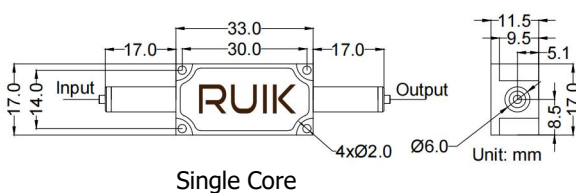
Specifications

Parameters	Unit	Values	
Stage	-	Single	Dual
Center Wavelength	nm	1064	
Operating Wavelength Range	nm	±5	
Min. Isolation at 23°C	dB	27	45
Max. Insertion Loss at 23°C	dB	1.7	3.8
Max. Insertion Loss at 23°C and Input Power 300mW	dB	2.0	4.0
Max. Insertion Loss at 23°C and Input Power 1W	dB	2.5	4.5
Max. Insertion Loss at 23°C and Input Power 2W	dB	3.0	5.5
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20	
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15	
Min. Return Loss at 23°C (Input /Output)	dB	45	
Max. Optical Power (CW)	W	0.5, 1, 2	
Max. Peak Power for ns Pulse	kW	10	
Package Dimensions	mm	33x17x11.5	60x17x11.5
Max. Tensile Load	N	5	
Operating Temperature	°C	+10 to +50	
Storage Temperature	°C	0 to +60	

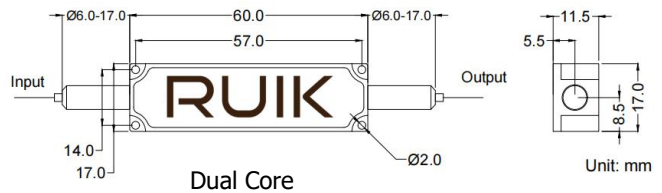
*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Single Core



Dual Core

Ordering Information

PMIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (PM fiber type)

PIIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (SM fiber type)

①①①① - Wavelength:	1064=1064nm, 1080=1080nm, SSS=Specified
② - Stage:	S=Single-core, D=Dual-core
③ - Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④ - Fiber Type:	003=PM980, 004=Hi1060, 014=PM1060L, 018=PLMA-GDF-10/125-M, SSS=Specified
⑤ - Package Dimensions:	0=33x17x11.5mm, 1=60x17x11.5mm
⑥ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑦ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨ - Average Power:	00=500mW, 01=1W, 02=2W
⑩⑩ - Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

Dual-channel High Power PM Isolator (up to 30W)

Features

Low Insertion Loss
Compact Size
High Isolation
High stability & Reliability

Applications

Ultra-fast Fiber Laser
Testing Instrument
Fiber Laser
Research

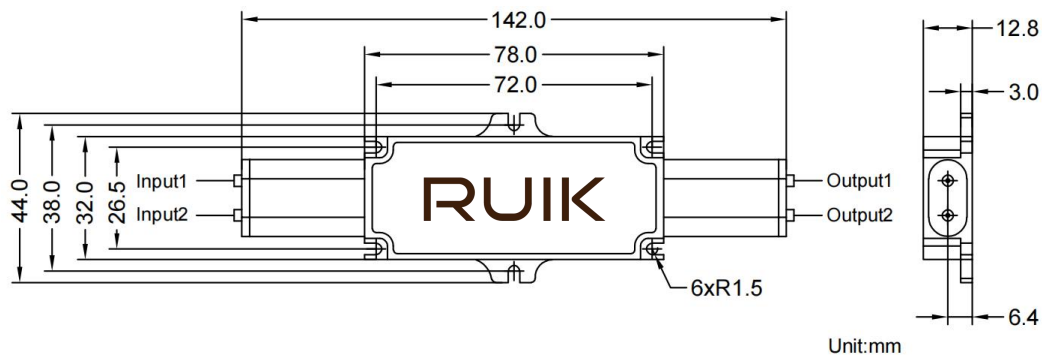
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030
Operating Wavelength Range	nm	±5
Min. Isolation at 23°C (Each Channel)	dB	26
Max. Insertion Loss at 23°C (Input 1 to Output 1)	dB	1.0
Max. Insertion Loss at 23°C (Input 2 to Output 2)	dB	1.0
Min. Extinction Ratio at 23°C (Each Channel)	dB	20
Min. Return Loss at 23°C (Each Channel)	dB	45
Working Axis	-	Slow axis working, Fast axis blocked
Max. Average Power (Each Channel)	W	30 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Package Dimensions	mm	78x32x12.8
Max. Tensile Load	N	5
Operating Temperature	°C	-5~+60
Storage Temperature	°C	-40~+60

*With connectors, the handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

DHPMIS-①①①①-②③-④④④-⑤⑤⑤-⑥⑦-⑧-⑨-⑩⑩⑪⑪

①①①①	- Wavelength:	1064=1064nm, 1030=1030nm
②	- Stage:	S=Single-core
③	- Working Axis:	F=Fast axis blocked
④④④	-Fiber Type for Input 1&2:	003=PM980, 014=PM1060L, 018=PLMA-GDF-10/125-M, SSS=Specified
⑤⑤⑤	- Fiber Type for Output 1&2:	003=PM980, 014=PM1060L, 018=PLMA-GDF-10/125-M, SSS=Specified
⑥	- Package Dimensions:	0=78x32x12.8mm, S=Specified
⑦	- Pigtail Type:	0=bare fiber, 1=900um loose tube
⑧	- Fiber Length:	0.75=0.75m, 1.0=1.0m, S=Specified
⑨	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑩⑩	- Average Power:	05=5W, 10=10W, 20=20W, SS=Specified
⑪⑪	- Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW, SS=Specified

780-1080nm Compact Size In-line Isolator (up to 10W)

Features

Low Insertion Loss
Compact Size
High Isolation
High stability & Reliability

Applications

Ultra-fast Fiber Laser
Testing Instrument
MOPA Fiber Laser
Fiber Laser

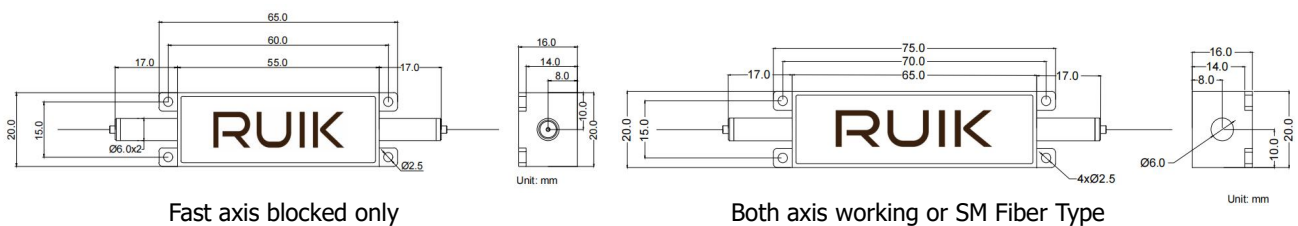
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030, 980, 808, 780 or Specified
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at 23°C	dB	30
Min. Isolation at 23°C	dB	26
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.0
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return Loss at 23°C (Input /Output)	dB	50
Max. Optical Power (CW)	W	1, 2, 5, 10 or Specified
Package Dimensions	Fast axis blocked	mm 65x20x16
	Both axis working or SM Fiber Type	mm 75x20x16
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

CHPMIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (PM fiber type)

CHPIIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (SM fiber type)

①①①①	- Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, 780=780nm, SSSS=Specified
②	- Stage:	S=Single-Core
③	- Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④	- Fiber Type:	003=PM980, 014=PM1060L, 067=PM780-HP, SSS=Specified
⑤	- Package Dimensions:	0=65x20x16mm, 1=75x20x16mm
⑥	- Pigtail Type:	0=bare fiber, 1=900um loose tube
⑦	- Fiber Length:	0.75=0.75m, 1.0=1.0m, S=Specified
⑧⑧	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨	- Average Power:	00=300mW, 01=1W, 02=2W, 05=5W, 10=10W, SS=Specified
⑩⑩	- Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW

780-1080nm High Power In-line Isolator (up to 30W)

Features

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

Applications

Ultra-fast Fiber Laser
Testing Instrument
Fiber Sensor
Fiber Laser

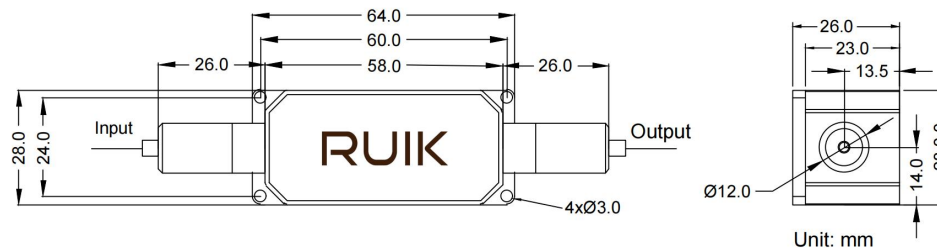
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030, 980, 808, 780 or Specified
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at 23°C	dB	30
Min. Isolation at 23°C	dB	26
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.0
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return Loss at 23°C (Input /Output)	dB	50
Max. Optical Power (CW)	W	0.3, 1, 5, 10 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Package Dimensions	mm	64x28x26
Max. Tensile Load	N	5
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the handing power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (PM fiber type)

HPIIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (SM fiber type)

①①①① - Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, 780=780nm, SSSS=Specified
② - Stage:	S=Single-Core
③ - Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④ - Fiber Type:	003=PM980, 004=HI1060, 067=PM780-HP, 018=PM 10/125DCF, SSS=Specified
⑤ - Package Dimensions:	0=64x28x26mm
⑥ - Pigtail Type:	0=bare fiber, 1=900um loose tube
⑦ - Fiber Length:	0.75=0.75m, 1.0=1.0m, S=Specified
⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨ - Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑩⑩ - Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW, SS=Specified

780-1080nm Dual-core Stage In-line Isolator (up to 20W)

Features

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

Applications

Fiber Laser
Testing Instrument
MOPA Fiber Laser
Research

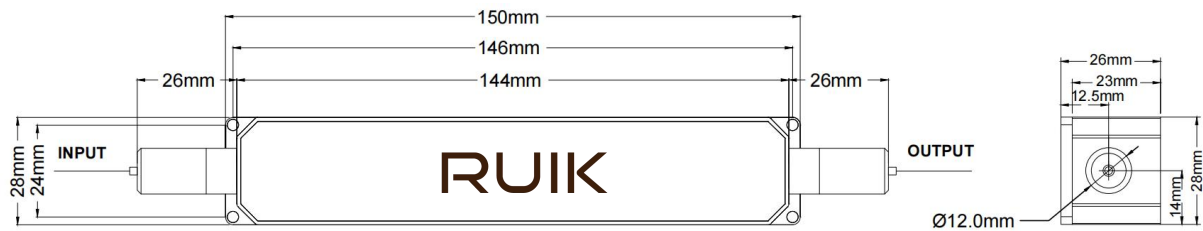
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030, 980, 808, 780 or Specified
Operating Wavelength Range	nm	±5
Min. Isolation at 23°C	dB	50
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.2
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return Loss at 23°C (Input /Output)	dB	50
Max. Optical Power (CW)	W	0.5, 1, 5, 10, 20 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Package Dimensions	mm	150x28x26
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the handing power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (PM fiber type)

HPIIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (SM fiber type)

①①①①	- Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, 780=780nm, SSSS=Specified
②	- Stage:	D=Dual-core
③	- Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④	- Fiber Type:	003=PM980, 004=HI1060, 016=PM1060L, 018=PM 10/125DCF, SSS=Specified
⑤	- Package Dimensions:	0=150x28x26mm, S=Specified
⑥	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑦	- Fiber Length:	0.75=0.75m, 1.0=1.0m, S=Specified
⑧⑧	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨	- Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑩⑩	- Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

780-1080nm Multi-mode In-line Isolator (up to 20W)

Features

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

Applications

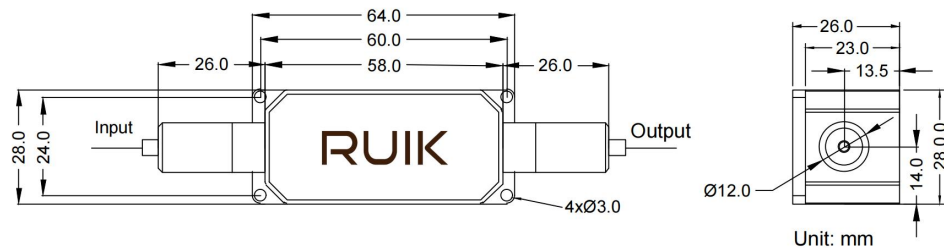
Fiber Laser
Testing Instrument

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030, 980, 808, 780 or Specified
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at 23°C	dB	23
Min. Isolation at 23°C	dB	20
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.0
Min. Return Loss at 23°C (Input /Output)	dB	30
Max. Optical Power (CW)	W	≤20
Max. Peak Power for ns Pulse	kW	10 or Specified
Package Dimensions	mm	64x28x26
Fiber Type	-	MM 50/125, MM 62.5/125
Max. Tensile Load	N	5
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the handing power is 1W only, IL is 0.3dB higher, and RL is 5dB lower.

Package Dimensions



Ordering Information

MMIS-①①①①-②-③③③-④⑤-⑥-⑦⑦-⑧⑧⑨⑨

①①①①	- Center Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, SSSS=Specified
②	- Stage:	S=Single-Core
③③③	- Fiber Type:	010=MM50/125, 093=MM62.5/125, SSS=Specified
④	- Package Dimensions:	0=64x28x26mm
⑤	- Pigtail Type:	0=bare fiber, 1=900um loose tube
⑥	- Fiber Length:	0.75=0.75m, 1.0=1.0m, S=Specified
⑦⑦	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑧⑧	- Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, SS=Specified
⑨⑨	- Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

980-1080nm High Power In-Line Isolator (up to 100W)

Features

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

Applications

Fiber Laser
Testing Instrument
MOPA Fiber Laser

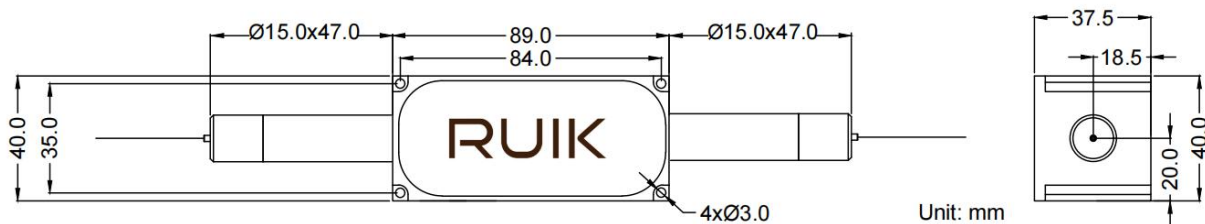
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030, 980 or Specified
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at 23°C	dB	30
Min. Isolation at 23°C	dB	26
Typ. Insertion Loss at 23°C	dB	0.5
Max. Insertion Loss at 23°C	dB	0.8
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return Loss at 23°C (Input /Output)	dB	50
Max. Optical Power (CW)	W	100
Package Dimensions	Average Power ≤50W	mm 70x28x26
	Average Power ≤100W	mm 89x40x37.5
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨-⑩⑩ (PM fiber type)

HPIIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨-⑩⑩ (SM fiber type)

①①①① - Wavelength:	1064=1064nm, 1030=1030nm, 98=980nm, SSSS=Specified
② - Stage:	S=Single-Core
③ - Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④ - Fiber Type:	018=PM 10/125DCF, 020=PM 20/130DCF, 030=PM 30/250DCF, SSS=Specified
⑤ - Package Dimensions:	0=70x28x26mm, 1=89x40x37.5mm
⑥ - Pigtail Type:	0=bare fiber, 1=900um loose tube
⑦ - Fiber Length:	0.75=0.75m, 1.0=1.0m, S=Specified
⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨ - Average Power:	50=50W, 60=60W, 100=100W, SS=Specified
⑩⑩ - Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW, SS=Specified

780-1080nm High Power Free Space Isolator (up to 100W)

Features

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

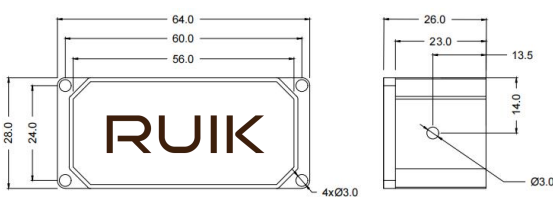
Applications

Fiber Laser
Testing Instrument
MOPA Fiber Laser

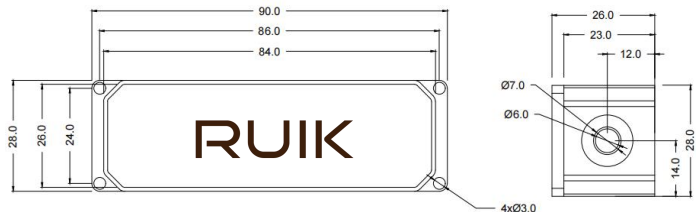
Specifications

Parameters	Unit	Values	
Center Wavelength	nm	1064, 1030, 980, 850, 780 or Specified	
Operating Wavelength Range	nm	±5	
Peak Transmission at 23°C	%	95	
Typ. Peak Isolation at 23°C	dB	30	
Min. Isolation at 23°C	dB	26	
Typ. Insertion Loss at 23°C	dB	0.15	
Max. Insertion Loss at 23°C	dB	0.3	
Min. Return Loss (Input /Output)	dB	50	
Max. Optical Power	W	5, 10, 20 or Specified	
Clear Aperture	mm	≤2.5	≤5.0
Package Dimensions	mm	64x28x26	90x28x26
Input Polarization	degree	Horizontal	
Output Polarization	degree	Horizontal	
Operating Temperature	°C	+10~+50	
Storage Temperature	°C	0~+60	

Package Dimensions



Aperture ≤2.5mm



Aperture ≤5mm

Unit: mm

Ordering Information

HPFSI-①①①①-②-③-④-⑤⑤⑤-⑥⑥

①①①①- Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, 850=850nm, SSSS=Specified
②- Type:	PS=Polarization Sensitive
③- Aperture:	1.5=1.5, 2=2.0, 3=3.0, 5=5.0, S=Specified
④- Package Dimensions:	0=64x28x26mm, 1=90x28x26mm, S=Specified
⑤⑤⑤- Power Handling:	001=1W, 002=2W, 005=5W, 010=10W, 020=20W, 100=100W, SS=Specified
⑥⑥- Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 05=5kW, 10=10kW, SS=Specified

1310-2050nm Polarization Maintaining In-line Isolator

Features

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

Applications

Communication Systems
Test Instrument
Fiber Sensor
PM Fiber Amplifier

Specifications

Parameters		Unit	Values			
Stage		-	Single	Dual	Single	Dual
Center Wavelength		nm	2050, 2000, 1950		1550, 1480, 1310	
Operating Wavelength Range		nm	±10		±20	
Typ. Peak Isolation at 23°C		dB	20	35	42	58
Min. Isolation at 23°C		dB	18	30	28	45
Typ. Insertion Loss at 23°C		dB	1.0	1.2	0.4	0.5
Max. Insertion Loss at 23°C		dB	1.3	1.5	0.55	0.65
Min. Extinction Ratio at 23°C	Both axis working	dB	18		20	
	Fast axis blocked	dB	20		22	
Min. Return Loss at 23°C (input/output)		dB	50/50			
Max. Optical Power (CW)		mW	500			
Fiber Type		-	PM Panda Fiber			
Max. Tensile Load		N	5			
Operating Temperature		°C	0~+70			
Storage Temperature		°C	-40~+85			

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMIS-①①①①-②③-④④④④-⑤⑥-⑦-⑧⑧

①①①① - Wavelength:	2000=2000nm, 1550=1550nm, 1480=1480nm, 1310=1310nm, SSSS=Specified
② - Stage:	S=Single-core, D=Dual-core
③ - Working Axis:	B=Both axis working, F=Fast axis blocked
④④④④ - Fiber Type:	001=PM1550, 002=PM1310, 045=PM1950, SSS=Specified
⑤ - Package Dimensions:	0=5.5x35mm, S=Specified
⑥ - Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑦ - Fiber Length:	0.75=0.75m, 1.0=1.0m, S=Specified
⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1310-2050nm High Power In-line Isolator (up to 30W)

Features

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

Applications

Communication Systems
Test Instrument
Fiber Laser
Fiber Amplifier

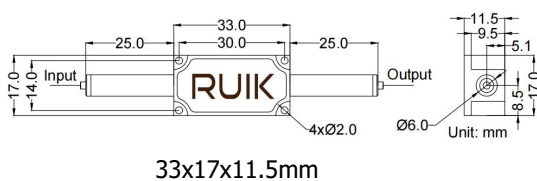
Specifications

Parameters		Unit	Values		
Stage		-	Single	Dual	Single
Center Wavelength		nm	1550, 1480, 1310		1950, 2000, 2050
Operating Wavelength Range		nm	±20		±10
Min. Isolation at 23°C		dB	28	45	22
Max. Insertion Loss at 23°C		dB	0.8	1.0	1.4
Min. Extinction Ratio at 23°C		dB	20		
Max. Polarization Dependent Loss (SM Fiber Type)		dB	0.15		
Min. Return Loss at 23°C (input/output)		dB	50/50		
Package Dimensions	Input Power: ≤5W	mm	φ5.5x40		
	Input Power: ≤20W	mm	33x17x11.5	60x17x11.5	45x19x14
	Input Power: ≤30W	mm	45x19x14	/	45x19x14
Max. Peak Power for ns Pulse		kW	10 or Specified		
Max. Tensile Load		N	5		
Operating Temperature		°C	0~+70		
Storage Temperature		°C	-40~+85		

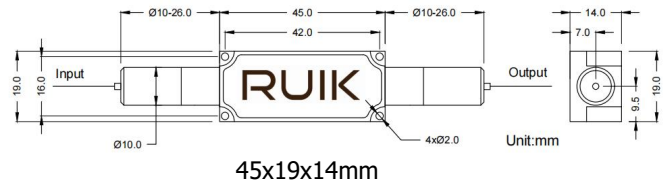
*With connectors, the handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



33x17x11.5mm



45x19x14mm

Ordering Information

HPMIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (PM Fiber Type)

HPIIS-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (SM Fiber Type)

①①①①	Wavelength:	2000=2000nm, 1550=1550nm, 1480=1480nm, 1310=1310nm, SSSS=Specified
②	Stage:	S=Single-core, D=Dual-core
③	Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④	Fiber Type:	001=PM1550, 008=SMF-28E, 045=PM1950, 049=PM-GDF-1550, SSS=Specified
⑤	Package Dimensions:	0=φ5.5x35mm, 1=5.5x40mm, 2=33x17x11.5mm, 3=45x19x14, S=Specified
⑥	Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑦	Fiber Length:	0.75=0.75m, 1.0=1.0m, S=Specified
⑧⑧	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨	Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑩⑩	Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

High Power Far Field Collimator (up to 200W)

Features

Low Insertion Loss
High Return Loss
High Reliability & Stability

Applications

Research
Pump Laser
Q-Switched Laser

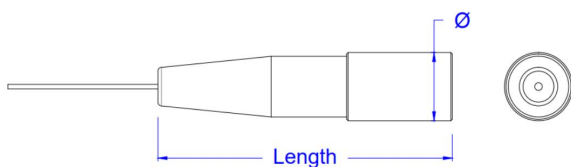
Specifications

Parameters	Unit	Values
Type	/	Single Fiber
Center Wavelength	nm	2000, 1550, 1064 or Specified
Working Distance	m	0.5, 1 or Specified
Beam Diameter @1/e ²	mm	1.0, 2.0 or Specified
Beam Divergence (Far field)	mrاد	<2.5
Beam Pointing Error	deg	<1.0
Beam Roundness	%	>90
Typ. Insertion Loss at 23°C (Free space output)	dB	0.4
Max. Insertion Loss at 23°C (Free space output)	dB	0.5
Min. Return Loss at 23°C	dB	50
Max. Optical Power (CW)	W	10, 20, ..., 200
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Operating temperature	°C	+10 ~ +50
Storage Temperature	°C	0 ~ +60

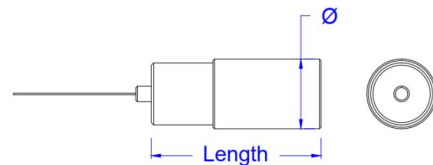
*With connectors, the handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



with 3.0mm loose tube



with bare fiber & 0.9mm loose tube

Ordering Information

HPMCOIL-①①①①-②-③③④-⑤⑤⑤⑤-⑥⑦-⑧-⑨⑨⑩⑩ (PM Fiber Type)

COLL-①①①①-②-③③④-⑤⑤⑤⑤-⑥⑦-⑧-⑨⑨⑩⑩ (SM Fiber Type)

①①①① - Wavelength:	1550=1550nm, 1064=1064nm, SSSS=Specified
② - Beam Diameter:	0.5=0.5mm, 1.0=1mm, 2.5=2.5mm, S=Specified
③③ - Working distance:	01=0.1m, 05=0.5m, 10=1m, SSS=Specified
④ - Package Dimensions:	1=φ7.5x25mm, 2=φ12x55mm, 3=φ25x69mm, C=Customized
⑤⑤⑤ - Fiber Type:	001=PM1550, 003=PM980, 018=PM 10/125DCF, SSS=Specified
⑥ - Pigtail Type:	0=bare fiber, 1=900μm loose tube, 3=3mm armoured cable, S=Specified
⑦ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑧ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨⑨ - Peak Power:	05=5W, 10=10W, 100=100W, SS=Specified
⑩⑩ - Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW

405-633nm Optical Fiber Circulator

Features

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

Applications

Fiber Laser
Testing Instrument
Fiber Sensor
Medical Equipment

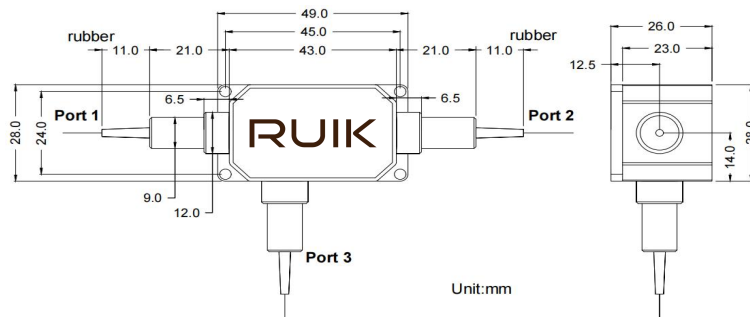
Specifications

Parameters	Unit	Values	
Port Type	-	3 Port	
Center Wavelength	nm	405, 450	532, 633
Operating Wavelength Range	nm	±5	
Typ. Peak Isolation at 23°C	dB	20	22
Min. Isolation at 23°C	dB	18	20
Max. Insertion Loss at 23°C	dB	2.5	2.0
Min. Extinction Ratio at 23°C	dB	18	
Min. Return Loss at 23°C (Input/ Output)	dB	40	
Min. Cross Talk at 23°C	dB	40	
Max. Optical Power (CW, Including Port 1 & Port 2)	mW	100	
Max. Tensile Load	N	5	
Working Axis	-	Slow axis working, Fast axis blocked	
Package Dimensions	mm	49x28x26	
Operating Temperature	°C	+10~+50	
Storage Temperature	°C	0~+60	

*With connectors, the Max. handling power is 50mW only, IL is 1.5dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMCIR-①①①-②③-④④④-⑤⑥-⑦-⑧⑧⑧ (PM Fiber Type)

①①①	- Wavelength:	405=405nm, 450=450nm, 532=532nm, 633=633nm, SSS=Specified
②	- Port Type:	3=3-Port
③	- Working Axis:	F=Fast axis blocked, S=Specified
④④④	- Fiber Type:	096=PM630-HP, 097=460-HP, 105=PM460-HP, 106=630-HP, 121=PM-S405-XP
⑤	- Package Dimensions:	0=49x28x26mm, S=Specified
⑥	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑦	- Fiber Length:	0.75=0.75m, 1.0=1m, SS=Specified
⑧⑧⑧	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1030-1053nm PM Fiber Circulator (Faraday Based, 50mW)

Features

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

Applications

Fiber Laser
Fiber Sensor
Fiber Instrument

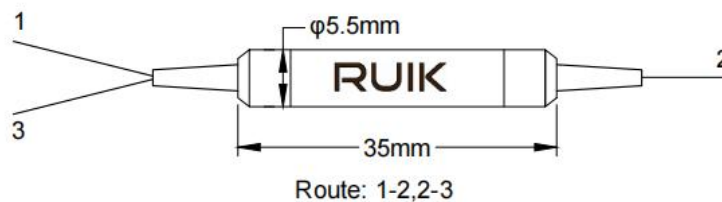
Specifications

Parameters	Unit	Values
Port Type	-	3 Port
Center Wavelength	nm	1030, 1040, 1053 or Specified
Operating Wavelength Range	nm	±5
Typ. Peak Isolation 23°C	dB	23
Min. Isolation at 23°C	dB	20
Typ. Insertion Loss at 23°C	dB	3.2
Max. Insertion Loss at 23°C	dB	3.5
Min. Extinction Ratio at 23°C	dB	20
Min. Cross Talk at 23°C	dB	50
Min. Return Loss at 23°C	dB	50
Max. Optical Power (CW, Including Port 1 & Port 2)	mW	50
Max. Tensile Load	N	5
Axis Alignment	-	Slow axis working, Fast axis blocked
Fiber Type	-	PM Panda Fiber
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PM CIR-①①①①-②③-④④④④-⑤⑥-⑦-⑧⑧⑧

①①①①	- Wavelength:	1030=1030nm, 1040=1040nm, 1053=1053nm, SSSS=Specified
②	- Port Type:	3=3-Port
③	- Working Axis:	F=Fast axis blocked
④④④④	- Fiber Type:	003=PM980, 014=PM1060L, 018=PM 10/125DCF, SSS=Specified
⑤	- Package Dimensions:	0=φ5.5x35mm, S=Specified
⑥	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑦	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧⑧	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1064nm PM Fiber Circulator (Faraday Based, 300mW)

Features

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

Applications

Fiber Laser
Fiber Sensor
Fiber Instrument

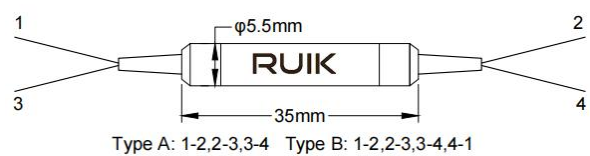
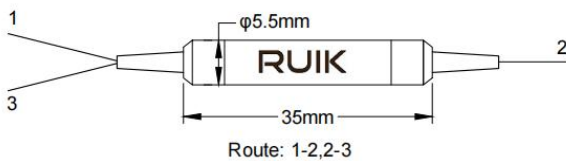
Specifications

Parameters	Unit	Values	
Port Type	-	3 Port	4 Port
Center Wavelength	nm	1064	
Operating Wavelength Range	nm	±5	
Typ. Insertion Loss at 23°C	dB	1.8	2.2
Max. Insertion Loss at 23°C	dB	2.1	2.5
Typ. Peak Isolation 23°C	dB	30	
Min. Isolation at 23°C	dB	25	
Min. Extinction Ratio at 23°C	dB	20	
Min. Cross Talk at 23°C	dB	50	
Min. Return Loss at 23°C	dB	50	
Max. Optical Power (CW, Including Port 1 & Port 2)	mW	300	
Max. Tensile Load	N	5	
Axis Alignment	-	Slow axis working, Fast axis blocked	
Fiber Type	-	PM Panda Fiber	
Operating Temperature	°C	-5~+70	
Storage Temperature	°C	-40~+85	

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMCIR-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧⑧

①①①① - Wavelength:	1064=1064nm, SSSS=Specified
② - Port Type:	3=3-Port, 4=4-Port
③ - Working Axis:	F=Slow axis working, Fast axis blocked
④④④ - Fiber Type:	003=PM980, 014=PM1060L, 018=PM 10/125DCF, SSS=Specified
⑤ - Package Dimensions:	0=φ5.5x35mm, S=Specified
⑥ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑦ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

780-1080nm High Power Optical Circulator (up to 30W)

Features

Low Insertion Loss
High Return Loss
High Stability & Reliability

Applications

Fiber Laser
Testing Instrument
Medical Equipment

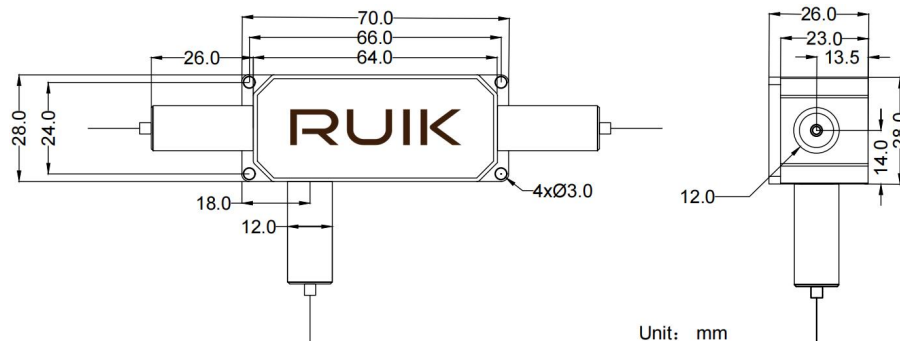
Specifications

Parameters	Unit	Values	
Center Wavelength	nm	1064, 1030, 980	850, 808, 780
Operating Wavelength Range	nm	±5	
Typ. Peak Isolation	dB	25	23
Min. Isolation at 23°C	dB	22	20
Typ. Insertion Loss at 23°C	dB	1.0	1.2
Max. Insertion Loss at 23°C	dB	1.3	1.5
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20	
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15	
Min. Return Loss at 23°C (Input/ Output)	dB	50	
Min. Cross Talk at 23°C	dB	50	
Max. Optical Power (CW, Including Port 1 & Port 2)	W	1, 2, 5, 10, 20 or Specified	
Max. Peak Power for ns Pulse	kW	10 or Specified	
Max. Tensile Load	N	5	
Package Dimensions	mm	70x28x26	
Operating Temperature	°C	+10~+50	
Storage Temperature	°C	0~+60	

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMCIR-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧⑧-⑨⑨⑩⑩ (PM Fiber Type)

HPICIR-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧⑧-⑨⑨⑩⑩ (SM Fiber Type)

①①①① - Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, 780=780nm, SSSS=Specified
② - Port Type:	3=3-Port
③ - Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④ - Fiber Type:	003=PM980, 004=Hi1060, 067=PM780-HP, 018=PM 10/125DCF, SSS=Specified
⑤ - Package Dimensions:	0=70x28x26mm, S=Specified
⑥ - Pigtail Type:	0=bare fiber, 1=900µm loose tube
⑦ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨ - Average Power:	00=300mW, 01=1W, 02=2W, 10=10W, 20=20W, SS=Specified
⑩⑩ - Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, 20=20kW, SS=Specified

780-1080nm Multi-mode Optical Circulator (up to 20W)

Features

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

Applications

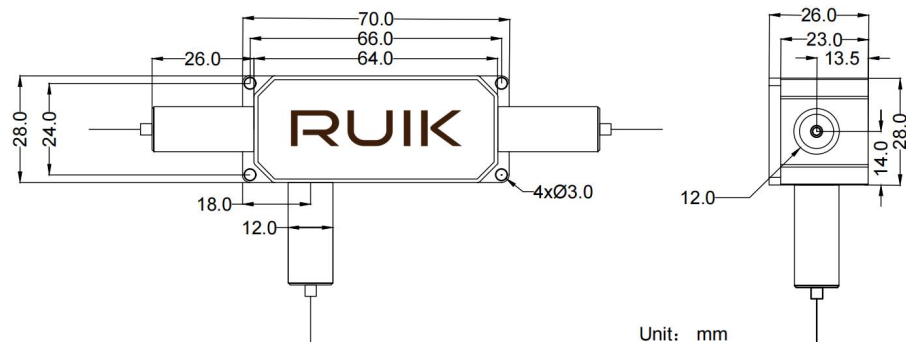
Fiber Laser
Testing Instrument
Fiber Instrument

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030, 980, 808, 780 or Specified
Operating Wavelength Range	nm	±5
Typ. Peak Isolation	dB	20
Min. Isolation at 23°C	dB	18
Typ. Insertion Loss at 23°C	dB	1.0
Max. Insertion Loss at 23°C	dB	1.3
Max. Polarization Dependent Loss at 23°C	dB	0.15
Min. Return Loss at 23°C (Input/ Output)	dB	30
Min. Cross Talk at 23°C	dB	30
Max. Optical Power (CW, Including Port 1 & Port 2)	W	1, 2, 5, 10 or Specified
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Package Dimensions	mm	70x28x26
Fiber Type	-	MM50/125, MM62.5/125
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower.

Package Dimensions



Ordering Information

MMCIR-①①①①-②-③③③-④⑤-⑥-⑦⑦⑦-⑧⑧⑨⑨

①①①①	- Center Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, 780=780nm, SSSS=Specified
②	- Port Type:	3=3-port
③③③	- Fiber Type:	094=MM50/125, 093=MM62.5/125
④	- Package Dimensions:	0=70x28x26mm, S=Specified
⑤	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑥	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑦⑦⑦	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑧⑧	- Handling Power:	00=300mW, 01=1W, 05=5W, 10=10W, SS=Specified
⑨⑨	- Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

980-1080nm High Power Optical Circulator (up to 100W)

Features

Low Insertion Loss
High Return Loss
High Stability & Reliability

Applications

Fiber Laser
Testing Instrument
Medical Equipment

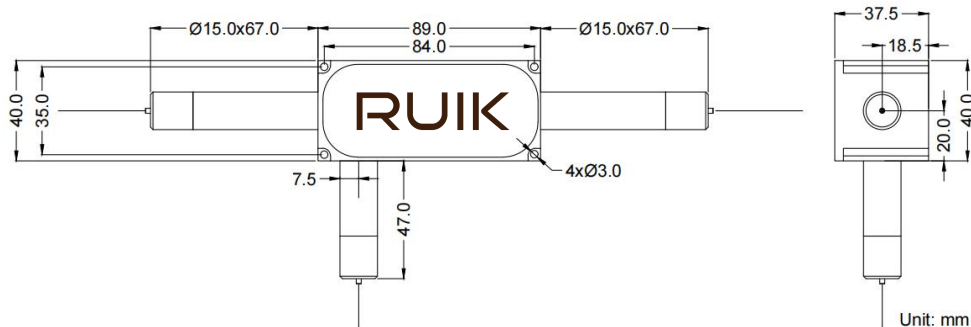
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030, 980
Operating Wavelength Range	nm	±5
Typ. Peak Isolation	dB	25
Min. Isolation at 23°C	dB	22
Typ. Insertion Loss at 23°C	dB	1.0
Max. Insertion Loss at 23°C	dB	1.2
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return Loss at 23°C (Input/ Output)	dB	50
Min. Cross Talk at 23°C	dB	50
Package Dimensions	Optical Power ≤50W	mm 75x28x26
	Optical Power ≤100W	mm 89x40x37.5
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMCIR-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧⑧-⑨⑨⑩⑩ (PM Fiber Type)

HPICIR-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧⑧-⑨⑨⑩⑩ (SM Fiber Type)

①①①①	- Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, SSSS=Specified
②	- Port Type:	3=3-Port
③	- Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④	- Fiber Type:	018=PM 10/125DCF, 021=PM 20/130DCF, 030=PM 30/250DCF, SSS=Specified
⑤	- Package Dimensions:	0=75x28x26mm, 1=89x40x37.5, S=Specified
⑥	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑦	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧⑧	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨	- Average Power:	50=50W, 60=60W, 100=100W, SS=Specified
⑩⑩	- Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW, SS=Specified

1310-2050nm Polarization Maintaining Fiber Circulator

Features

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

Applications

EDFA & Raman Amplifier
Fiber Sensor
Fiber Instrument
Testing Instrument

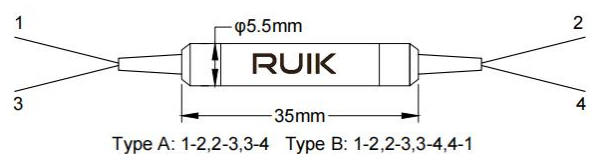
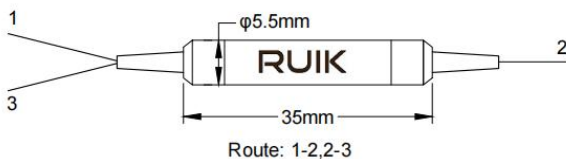
Specifications

Parameters	Unit	Values							
Type	-	Type A		Type B		Type A		Type B	
Port Type	-	3 Port	4 Port	3 Port	4 Port	3 Port	4 Port	3 Port	4 Port
Center Wavelength	nm	2050, 2000, 1950				1550, 1480, 1310			
Operating Wavelength Range	nm	±20							
Typ. Insertion Loss at 23°C	dB	1.3	1.6	1.2	1.5	0.7	0.8	0.6	0.7
Max. Insertion Loss at 23°C	dB	1.6	1.9	1.5	1.8	0.9	1.1	0.8	1.0
Typ. Peak Isolation 23°C	dB	30		18		46		30	
Min. Isolation at 23°C	dB	28		16		40		25	
Min. Extinction Ratio at 23°C	dB	18				20			
Min. Cross Talk at 23°C	dB	50							
Min. Return Loss at 23°C	dB	50							
Axis Alignment	-	Slow axis working, Fast axis blocked							
Max. Optical Power (CW)	mW	500							
Max. Tensile Load	N	5							
Fiber Type	-	PM Panda Fiber							
Package Dimensions	mm	φ5.5x35							
Operating Temperature	°C	-5~+70							
Storage Temperature	°C	-40~+85							

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMCIR-①①①①-②③④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨ (3 Port)

PMCIR-①①①①-②③④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨⑨ (4 Port)

①①①①	Wavelength:	2000=2000nm, 1550=1550nm, 1310=1310nm, SSSS=Specified
②	Port Type:	3=3-Port, 4=4-Port
③	Stage:	A=Type A, B=Type B
④	Working Axis:	F=Fast axis blocked
⑤⑤⑤	Fiber Type:	001=PM1550, 002=PM1310, 045=PM1950, SSS=Specified
⑥	Package Dimensions:	0=φ5.5x35mm, S=Specified
⑦	Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑧	Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨⑨⑨	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1310-2050nm High Power Fiber Circulator (up to 30W)

Features

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

Applications

EDFA & Raman Amplifier
Fiber Sensor
Fiber Laser

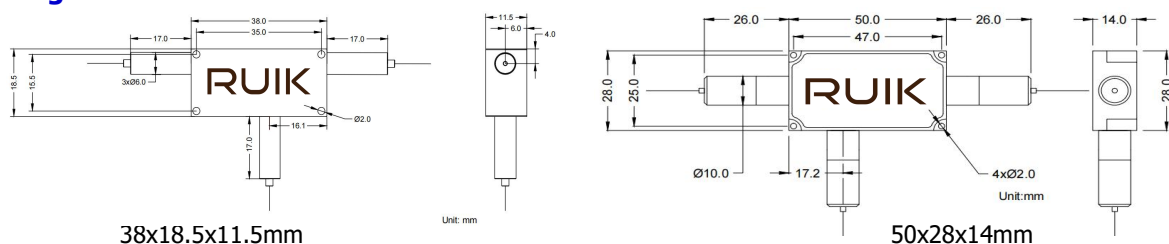
Specifications

Parameters		Unit	Values	
Type		-	Type B	
Port Type		-	3 Port	
Center Wavelength		nm	1550, 1480, 1310	2050, 2000, 1950
Operating Wavelength Range		nm	±20	±10
Typ. Insertion Loss at 23°C		dB	0.6	1.2
Max. Insertion Loss at 23°C		dB	0.8	1.4
Typ. Peak Isolation 23°C		dB	28	23
Min. Isolation at 23°C		dB	25	18
Min. Extinction Ratio at 23°C (PM Fiber Type)		dB	20	18
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)		dB	0.15	
Min. Cross Talk at 23°C		dB	50	
Min. Return Loss at 23°C		dB	50	
Package Dimensions	Input Power: ≤5W	mm	φ5.5x40	φ5.5x40
	Input Power: ≤20W	mm	38x18.5x11.5	50x28x14
	Input Power: ≤30W	mm	50x28x14	50x28x14
Max. Tensile Load		N	5	
Operating Temperature		°C	-5~+70	
Storage Temperature		°C	-40~+85	

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMCIR-①①①①-②③④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨-⑩⑩⑪⑪ (PM Fiber Type)

HPICIR-(1)(1)(1)(1)-(2)(3)(4)-(5)(5)(5)-(6)(7)-(8)-(9)(9)(9)-(10)(10)(11)(11) (SM Fiber Type)

①①①①	- Wavelength:	2000=2000nm, 1550=1550nm, 1310=1310nm, SSSS=Specified
②	- Port Type:	3=3-Port
③	- Stage:	B=Type B
④	- Working Axis:	F=Fast axis blocked, N=Non-PM
⑤⑤⑤	- Fiber Type:	001=PM1550, 002=PM1310, 008=SMF-28E, 045=PM1950, SSS=Specified
⑥	- Package Dimensions:	0=φ5.5x40mm, 1=38x18.5x11.5mm, 2=50x28x14mm, S=Specified
⑦	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑧	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨⑨⑨	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑩⑩	- Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑪⑪	- Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

Polarization Maintaining Filter WDM (up to 20W)

Features

Low Insertion Loss
High Return Loss
High Reliability & Stability

Applications

CATV System
CWDM/DWDM Module
Fiber Laser
Research

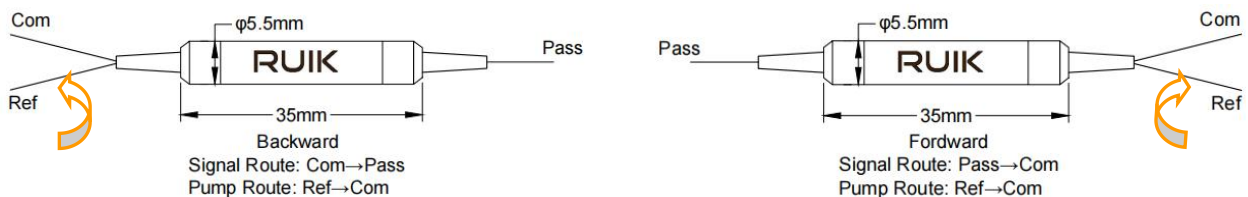
Specifications

Parameters		Unit	Values				
Type		-	1064/980	1550/980	1550/1064	1550/1480	2000/1550
Transmission Wavelength		nm	1020~1080	1520~1580	1520~1580	1535~1565	1950~2050
Reflection Wavelength		nm	960~990	960~990	1020~1080	1480±10	1550±20
Max. Insertion Loss at 23°C	Transmission Channel	dB	0.8	0.7	0.8	0.8	1.0
	Reflection Channel	dB	0.6	0.6	1.0	0.6	0.8
Min. Transmission Isolation @Reflection		dB	30	30	30	30	25
Min. Reflection Isolation @Transmission		dB	15	15	15	15	12
Max. Channel Flatness		dB	0.4				
Min. Extinction Ratio at 23°C	Transmission Channel	dB	20				
	Reflection Channel	dB	18				
Max. Wavelength Thermal Stability		nm/°C	0.003				
Max. Insertion Loss Thermal Stability		dB/°C	0.005				
Min. Return Loss at 23°C		dB	50				
Max. Power Handling (CW)		W	1, 3, 5, 10, 20 or Specified				
Package Dimensions	Input power ≤5W	mm	φ5.5x35				
	Input power ≤20W	mm	70x12x8				
Max. Tensile Load		N	5				
Operating Temperature		°C	0~+70				
Storage Temperature		°C	-40~+85				

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFWDM-①①①①-②③-④④④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨-⑩⑪⑪⑪ (PM Fiber Type)

FWDM-①①①①-②③-④④④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨-⑩⑪⑪⑪ (SM Fiber Type)

①①①①	Wavelength:	5506=T1550nm/R1064nm, 0698=T1064nm/R980nm, SSS=Specified
②	Pump Type:	F=Forward, B=Backward
③	Working Axis (Signal Route):	B=Both axis working, F=Fast axis blocked, N=non-PM
④④④	Fiber Type for Com & Pass:	001=PM1550, 003=PM980, 045=PM1950, SSS=Specified
⑤⑤⑤	Fiber Type for Ref:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑥	Package Dimensions:	0=φ5.5x35mm, 1=70x12x8mm, S=Specified
⑦	Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑧	Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨⑨⑨	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑩⑩	Average Power:	00=300mW, 01=1W, 02=2W, 05=5W, 10=10W, 20=2W, SS=Specified
⑪⑪	Peak Power:	00=Continuous Wave, 01=1kW, 10=10kW, SS=Specified

Polarization Maintaining Fused WDM (up to 20W)

Features

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

Applications

Testing Instruments
Coherent Communication
EDFA
Fiber Sensor

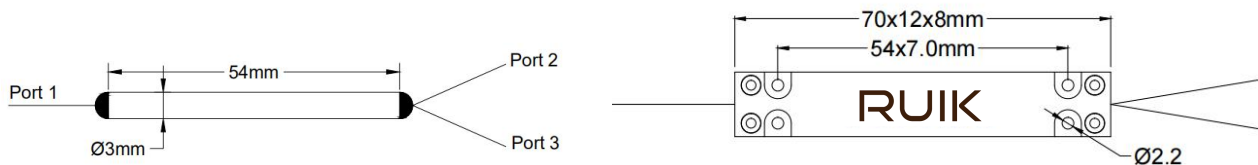
Specifications

Parameters		Unit	Values			
Type		/	980/1064	980/1550	1064/1550	2000/1550
Operating Bandwidth		nm	±15			
Max. Insertion Loss at 23°C	Signal Port	dB	0.8	0.7	0.7	1.2
	Pump Port	dB	0.8	0.7	0.7	1.2
Min. Extinction Ratio at 23°C		dB	18	20	20	15
Min. Isolation at 23°C		dB	13	18	18	13
Min. Directivity at 23°C		dB	50			
Min. Return Loss at 23°C		dB	50			
Axis Alignment		-	Both axes working			
Max. Optical Power (CW)		W	5, 10, 20 or Specified			
Max. Peak Power for ns Pulse		kW	10 or Specified			
Package Dimensions	Optical power ≤5W	mm	φ3*70	φ3*54	φ3*54	φ3*60
	Optical power ≤20W	mm	70x12x8			
Fiber Type		-	PM Panda Fiber			
Operating Temperature		°C	-5~+75			
Storage Temperature		°C	-40~+85			

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFUWDM-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧⑧-⑨⑨⑩⑩ (PM Fiber Type)

FUWDM-①①①①-②③-④④④-⑤⑥-⑦-⑧⑧⑧-⑨⑨⑩⑩ (SM Fiber Type)

①①①①	- Wavelength:	9806=980/1064, 9855=980/1550, 0655=1064/1550, SSSS=Specified
②	- Type:	3=1x2, 4=2x2
③	- Pump Type:	F=Forward pump, B=Backward pump
④④④	- Fiber type:	001=PM1550, 003=PM980, 045=PM1950, SSS=Specified
⑤	- Package Dimensions:	0=φ3.0x54mm, 1=φ3.0x60mm, 2=φ3.0x70mm, 3=70x12x8mm, S=Specified
⑥	- Pigtail type:	0=bare fiber, 1=900μm loose tube
⑦	- Fiber length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧⑧	- Connector type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨	- Average Power:	00=300mW, 03=3W, 10=10W, SS=Specified
⑩⑩	- Peak Power:	00=Continuous Wave, 01=1kW, 10=10kW, SS=Specified

Band Pass Filter (up to 20W)

Features

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

Applications

Fiber Laser
Test Instrument
Fiber Sensor

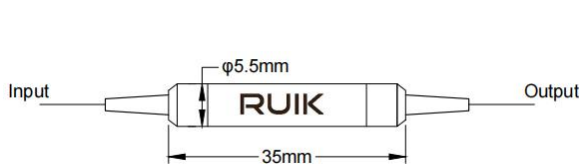
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1550, 1064, 1030 or Specified
Min. Pass Band Width (@-0.5dB)	nm	2, 5, 8, 15 or Specified
Max. Stop Bandwidth (@-25dB)	nm	Specified
Max. Insertion Loss of Pass band at 23°C	dB	0.7
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return loss at 23°C	dB	50
Max. Power Handling (CW)	W	0.3, 1, 5, 10, 20 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Operating Temperature	°C	0 ~ +70
Storage Temperature	°C	-40 ~ +85

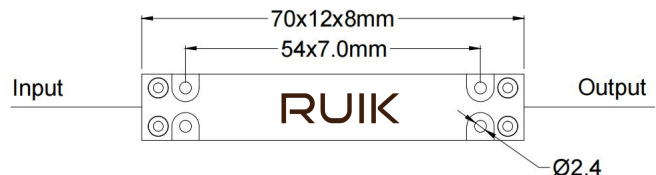
*With connectors, the handing power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Max. Input Power: 5W



Max. Input Power: 20W

Ordering Information

PMBPF-①①①①-②②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (PM Fiber Type)

BPF-①①①①-②②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (SM Fiber Type)

①①①①	Wavelength:	1550=1550nm, 1064=1064nm, 1030=1030nm, SSSS=Specified
②②	Pass Band width@-0.5dB:	02=2nm, 05=5nm, 10=10nm, 15=15nm, SS=Specified
③	Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④	Fiber Type:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑤	Package Dimensions:	0=φ5.5x35mm, 1=70x12x8mm, S=Specified
⑥	Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑦	Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨	Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑩⑩	Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW

Pump Laser Protector

Features

Low Insertion Loss
High Return Loss
High Reliability & Stability

Applications

Fiber Laser
Pump Laser
Research

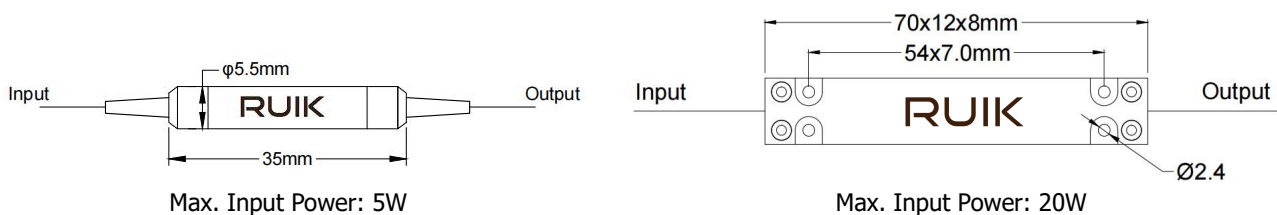
Specifications

Parameters		Unit	Values
Pass Band Wavelength Range		nm	960~990 or Specified
Max.Insertion Loss over Pass Band Wavelength		dB	0.7
Blocked Band Wavelength Range		nm	1020~1100 or 1500~1600 or Specified
Min. Isolation at 23°C (@Blocked Band Wavelength Range)		dB	25
Min. Extinction Ratio at 23°C (PM Fiber Type)		dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)		dB	0.15
Min. Return Loss at 23°C	SM Fiber & PM Fiber	dB	50
	MM Fiber	dB	30
Axis Alignment		-	Both axes working
Max. Power Handling (CW)		W	0.3, 1, 5, 10, 20 or Specified
Max. Pulsed Power		kW	10 or Specified
Max. Wavelength Thermal Stability		nm/°C	0.003
Max. Insertion Loss Thermal Stability		dB/°C	0.005
Operating Temperature		°C	0~+70
Storage Temperature		°C	-40~+85

*With connectors, the handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PLP-①①①①-②②②-③④-⑤-⑥⑥-⑦⑦⑧⑧ (SM & PM Fiber Type)

MMPLP-①①①①-②②②-③④-⑤-⑥⑥-⑦⑦⑧⑧ (MM Fiber Type)

①①①①	- Wavelength:	9815=980nm pass/1550nm blocked, 9806=980nm pass/1064nm blocked
②②②	- Fiber Type:	003=PM980, 004=Hi1060, 009=MM-S105/125-22A, SSS=Specified
③	- Package Dimensions:	0=φ5.5x35mm, 1=70x12x8mm, 2=100x15x10mm, S=Specified
④	- Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑤	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑥⑥	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑦⑦	- Average Power:	00=300mW, 01=1W, 05=5W, 20=20W, SS=Specified
⑧⑧	- Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW

Polarization Maintaining Dense WDM (DWDM)

Features

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

Applications

DWDM Module
DWDM System
GPON Networks
CATV Links

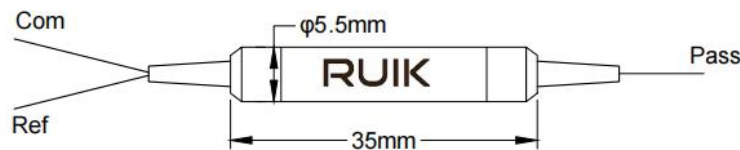
Specifications

Parameters		Unit	Values	
Channel Space		Ghz	100	200
Center Wavelength		nm	ITU Grid	
Center Wavelength Accuracy		nm	±0.05	±0.1
Max. Insertion Loss at 23°C	Transmission Channel	dB	1.0	0.9
	Reflection Channel	dB	0.4	0.4
Min. Isolation at 23°C	Adjacent Channel	dB	30	30
	Non-adjacent Channel	dB	40	40
	Reflection Channel	dB	12	12
Max. Channel Flatness		dB	0.3	
Min. Extinction Ratio at 23°C		dB	20	
Max. Wavelength Thermal Stability		nm/°C	0.003	
Max. Insertion Loss Thermal Stability		dB/°C	0.005	
Min. Return Loss at 23°C		dB	50	
Max. Power Handling (CW)		mW	500	
Fiber Type		-	PM Panda fiber	
Operating Temperature		°C	0~+70	
Storage Temperature		°C	-40~+85	

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMDWDM-①①-②③④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨

①① - Wavelength:	26=CH26, 27=CH27, ..., 40=CH40, 41=CH41, SS=Specified
② - Configuration:	2=1x1, 3=1x2
③ - Channel Space:	1=100G, 2=200G
④ - Working Axis:	B=Both axis working, F=Fast axis blocked
⑤⑤⑤ - Fiber Type:	001=PM1550, SSS=Specified
⑥ - Package Dimensions:	0=φ5.5x35mm, S=Specified
⑦ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑧ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨⑨⑨ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

Polarization Maintaining Coarse WDM (CWDM)

Features

Low Insertion Loss & Isolation
High Return Loss
High Reliability & Stability
Wide Transmission Width

Applications

CWDM System
CWDM/OADM Module
CWDM/OADM Networks

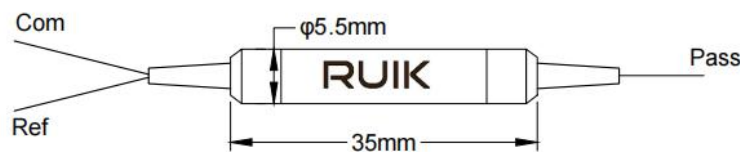
Specifications

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

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMCWDM-①①-②③④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨

①①	Center Wavelength:	27=1270nm or 1271nm, ..., 61=1610nm or 1611nm, SS=Specified
②	Operating Wavelength:	F=Full wave (1260nm~1620nm), H=Half wave (1260~1460 or 1460~1620)
③	Port Type:	3=1x2
④	Working axis for Signal:	B=Both axis working, F=Fast axis blocked
⑤⑤⑤	Fiber Type:	001=PM1550, 002=PM1310, SSS=Specified
⑥	Package Dimensions:	0=φ5.5x35mm, S=Specified
⑦	Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
⑧	Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨⑨⑨	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

Polarization Maintaining Dense WDM Module

Features

Low Insertion Loss
High Return Loss & Channel Isolation
Good Channel to Channel Uniformity
High Reliability & Stability

Applications

DWDM System
GPON Networks
CATV Links

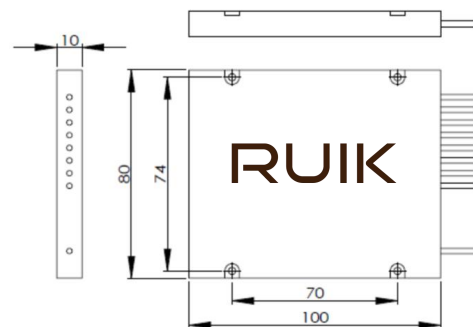
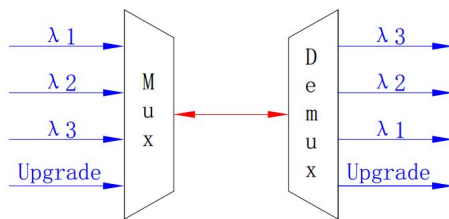
Specifications

Parameters		Unit	Values			
Configuration		-	2-Channel	4-Channel	8-Channel	16-Channel
Center Wavelength		nm	ITU Grid			
Channel Space		GHz	100 or 200			
Center Wavelength Accuracy		nm	100G:±0.05; 200G: ±0.1			
Max. Insertion Loss at 23°C	Mux to Demux (Link)	dB	1.8	2.6	3.8	7.5
	Adjacent channel	dB	30	30	30	30
	Non-adjacent channel	dB	40	40	40	40
	Upgrade Channel	dB	10	10	10	10
Max. Channel Flatness		dB	0.3			
Min. Return Loss at 23°C		dB	50			
Min. Extinction Ratio at 23°C		dB	20	20	18	16
Max. Wavelength Thermal Stability		nm/°C	0.003			
Max. Insertion Loss Thermal Stability		dB/°C	0.005			
Max. Power Handling (CW)		mW	500			
Operating Temperature		°C	0~+70			
Storage Temperature		°C	-40~+85			

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



ABS Box: 100x80x10mm

Ordering Information

PMDM-①②-③③-④④-⑤-⑥⑥⑥-⑦⑧-⑨-⑩

① - Module Type:	M=Mux, D=Demux
② - Channel Space:	1=100G, 2=200G
③③ - Initial Wavelength:	26=CH26, 27=CH27, ..., 40=CH40, 41=CH41, SS=Specified
④④ - Numbers of Channel:	04=4CH, 08=8CH, 16=16CH, SSS=Specified
⑤ - Working Axis:	B=Both axis working, F=Fast axis blocked
⑥⑥⑥ - Fiber Type:	001=PM1550, SSS=Specified
⑦ - Package Dimensions:	0=100x80x10mm, 1=120x80x18mm, 3=140x140x10mm, S=Specified
⑧ - Fiber Length:	0=bare fiber, 1=900um loose tube, 2=2.0mm loose tube, 3=3.0 loose tube
⑨ - Pigtail Type:	0.75=0.75m, 1.0=1m, S=Specified
⑩ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

Polarization Maintaining Coarse WDM Module

Features

Low Insertion Loss
High Return Loss & Channel Isolation
Good Channel to Channel Uniformity
High Reliability & Stability

Applications

DWDM System
GPON Networks
CATV Links

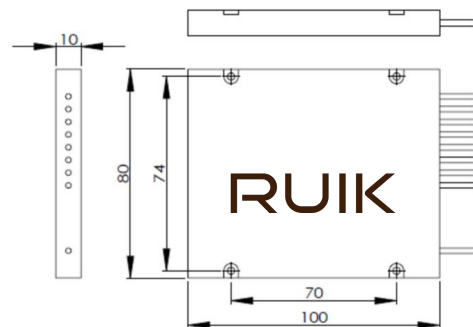
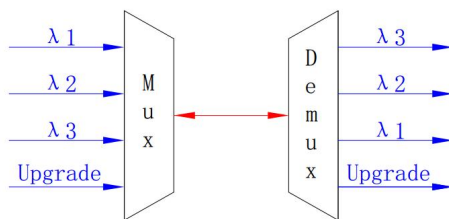
Specifications

Parameters		Unit	Values			
Configuration		-	2-Channel	4-Channel	8-Channel	16-Channel
Center Wavelength		nm	ITU or ITU+1			
Channel Space		Ghz	1260~1460 or 1460~1620 or 1260~1620			
Channel Space		nm	20			
Min. Channel Bandwidth @ λ_c		nm	± 6.5			
Max. Channel Flatness		dB	0.4			
Max. Insertion Loss at 23°C	Mux to Demux (Link)	dB	1.4	2.2	3.4	7.1
Min. Isolation at 23°C	Adjacent channel	dB	30	30	30	30
	Non-adjacent channel	dB	40	40	40	40
	Upgrade Channel	dB	12	12	12	12
Min. Return Loss at 23°C		dB	50			
Min. Extinction Ratio at 23°C		dB	20	20	18	16
Max. Wavelength Thermal Stability		nm/°C	0.003			
Max. Insertion Loss Thermal Stability		dB/°C	0.005			
Max. Power Handling (CW)		mW	500			
Operating Temperature		°C	0~+70			
Storage Temperature		°C	-40~+85			

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



ABS Box: 100x80x10mm

Ordering Information

PMCM-①②-③③-④④-⑤-⑥⑥⑥-⑦⑧-⑨-⑩

① - Module Type:	M=Mux, D=Demux
② - Operating Wavelength:	F=Full wave(1260nm~1620nm), H=half wave(1260~1460 or 1460~1620)
③③ - Start Wavelength:	27=1270nm or 1271nm, ..., 55=1550 or 1551nm, ..., 61=1610nm or 1611nm
④④ - Numbers of Channel:	04=4CH, 08=8CH, 16=16CH, SSS=Specified
⑤ - Working Axis:	B=Both axis working, F=Fast axis blocked
⑥⑥⑥ - Fiber Type:	001=PM1550, 002=PM1310, SSS=Specified
⑦ - Package Dimensions:	0=100x80x10mm, 1=120x80x18mm, 2=140x140x10mm, S=Specified
⑧ - Fiber Length:	0=bare fiber, 1=900um loose tube, 2=2.0mm loose tube, 3=3.0 loose tube
⑨ - Pigtail Type:	0.75=0.75m, 1.0=1m, S=Specified
⑩ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

450-650nm PM Fused Coupler (1x2/2x2)

Features

Low Insertion Loss
High Stability & Reliability

Applications

Coherent Communication
Power Monitor
Fiber Sensor

Specifications

Parameters	Unit	Values
Center Wavelength	nm	650, 633, 532, 450
Operating Bandwidth	nm	±5
Max. Excess Loss at 23°C	dB	1.4
Min. Extinction Ratio at 23°C	dB	18
Min. Directivity at 23°C	dB	50
Min. Return Loss at 23°C	dB	50
Max. Optical Power (CW)	mW	100
Fiber Type	-	PM Panda Fiber
Package Dimensions	mm	φ3*54
Operating Temperature	°C	-5~+75
Storage Temperature	°C	-40~+85

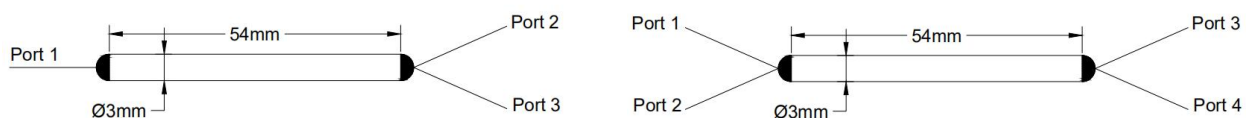
Splitting Ratio Tolerance

Splitting Ratio	50	%	±4.0
	40	%	±3.0
	30	%	±2.5
	20	%	±2.0
	10	%	±1.5
	5	%	±1.0
	1	%	±0.5

*With connectors, the Max. handling power is 50mW only, IL is 1.5dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFUC-①①①-②③③-④④④-⑤⑥-⑦-⑧⑧⑧ (1x2 Type)

PMFUC-①①①-②③③-④④④-⑤⑥-⑦-⑧⑧⑧⑧ (2x2 Type)

①①①	- Wavelength:	633=633nm, 532=532nm, 450=450nm, SSS=Specified
②	- Port Type:	3=1x2, 4=2x2
③③	- Tap Ratio:	01=1/99, 05=5/95, ..., 50=50/50
④④④	- Fiber type:	096=PM630-HP, 105=PM460-HP, SSS=Specified
⑤	- Package Dimensions:	0=φ3.0x54mm, S=Specified
⑥	- Pigtail type:	0=bare fiber, 1=900μm loose tube
⑦	- Fiber length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧⑧⑧	- Connector type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

780-2050nm PM Fused Coupler (1x2/2x2, up to 20W)

Features

High Power Handling
Low Insertion Loss
High Stability & Reliability

Applications

Coherent Communication
Power Monitor
Fiber Sensor

Specifications

Parameters		Unit	Values			
Center Wavelength		nm	2050, 2000, 1950	1550, 1310	1064, 1030, 980	850, 808, 780
Operating Bandwidth		nm	±15	±15	±10	±10
Max. Excess Loss at 23°C		dB	0.8	0.5	0.6	0.8
Min. Extinction Ratio at 23°C		dB	16	20	20	18
Min. Directivity at 23°C		dB	50			
Min. Return Loss at 23°C		dB	50			
Max. Optical Power (CW)		W	0.3, 1, 5, 10, 20 or Specified			
Package Dimensions	Input Power ≤5W	mm	φ3x54, φ3x60			
	Input Power ≤20W	mm	70x12x8			
Fiber Type		-	PM Panda Fiber			
Operating Temperature		°C	-5~+75			
Storage Temperature		°C	-40~+85			

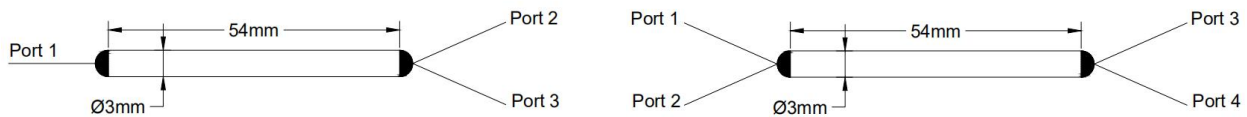
Splitting Ratio Tolerance

Splitting Ratio	50	%	±3.0
	40	%	±2.5
	30	%	±2.0
	20	%	±1.5
	10	%	±1.0
	5	%	±0.7
	1	%	±0.3

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFUC-①①①①-②③③-④④④-⑤⑥-⑦-⑧-⑨⑨⑩⑩

①①①① - Wavelength:	2000=2000nm, 1550=1550nm, 1064=1064nm, 980=980nm, SSSS=Specified
② - Port Type:	3=1x2, 4=2x2
③③ - Tap Ratio:	01=1/99, 05=5/95, ..., 50=50/50
④④④ - Fiber type:	001=PM1550, 002=PM1310,
⑤ - Package Dimensions:	0=φ3.0x54mm, 1=φ3.0x60mm, 2=70x12x8mm, S=Specified
⑥ - Pigtail type:	0=bare fiber, 1=900μm loose tube
⑦ - Fiber length:	0.75=0.75m, 1.0=1m, S=Specified
⑧ - Connector type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨ - Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑩⑩ - Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

780-1550nm PM Fused Coupler (1x3/3x3)

Features

High Power Handling
Low Insertion Loss
High Stability & Reliability

Applications

Coherent Communication
Power Monitor
Fiber Sensor

Specifications

Parameters		Unit	Values		
Center Wavelength		nm	1550, 1310	1064, 1030, 980	850, 808, 780
Operating Bandwidth		nm	±15	±10	±10
Max. Excess Loss		dB	1.0	1.2	1.2
Min. Extinction Ratio		dB	18	18	18
Splitting Ratio		%	33:33:33		
Splitting Ratio Tolerance		%	±4		
Min. Directivity		dB	50		
Min. Return Loss		dB	50		
Max. Optical Power (CW)		W	2		
Fiber Type		-	PM Panda Fiber		
Package Dimensions	Bare fiber	mm	Φ3*54		
	900um loose tube	mm	Φ4*70		
Operating Temperature		°C	-5~+70		
Storage Temperature		°C	-40~+85		

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFUC-①①①①-②②-③③③-④⑤-⑥-⑦⑧

①①①①	- Wavelength:	1550=1550nm, 1064=1064nm, 1030=1030nm, 850=850nm, SSSS=Specified
②②	- Port Type:	13=1x3, 33=3x3
③③③	- Fiber Type:	001=PM1550, 003=PM980, 067=PM780-HP, SSS=Specified
④	- Package Dimensions:	0=φ3.0x54mm, 1=φ4.0x70mm, S=Specified
⑤	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑥	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑦	- Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑧	- Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

780-1550nm PM Filter Coupler (up to 20W)

Features

Low Insertion Loss
High Return Loss
High Extinction Ratio

Applications

EDFA & Raman Amplifier
Fiber Sensor
Fiber Optical Instrument

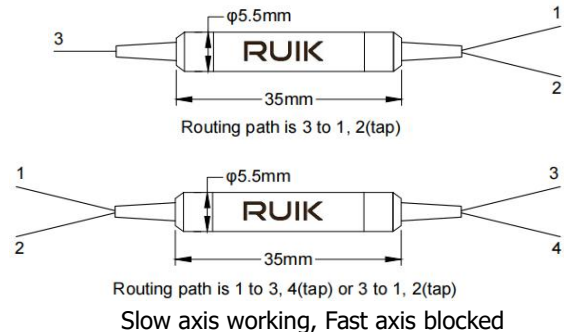
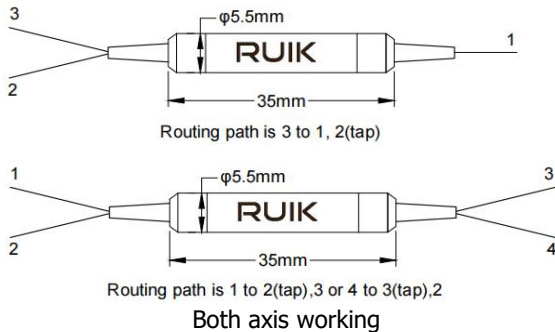
Specifications

Parameters		Unit	Values					
Type		-	1x2			2x2		
Center Wavelength		nm	1550, 1310	1064, 980	850, 780	1550, 1310	1064, 980	850, 780
Operating Wavelength Range		nm	±40	±20	±10	±40	±20	±10
Max. Excess Loss at 23°C		dB	0.7	0.8	1.0	1.0	1.2	1.4
Uniformity (only for 50/50)		dB	0.4	0.5	0.6	0.6	0.8	0.8
Coupling Ratio		%	01/99~50/50					
Min. Extinction Ratio at 23°C	Both axis working	dB	18					
	Fast axis blocked	dB	22					
Min. Return Loss at 23°C		dB	50					
Max. Optical Power (CW)		W	0.3, 1, 5, 10, 20 or Specified					
Max. Tensile Load		N	5					
Package Dimensions	Input power ≤5W	mm	Φ5.5x35					
	Input power ≤20W	mm	70x12x8					
Operating Temperature		°C	-5~+70					
Storage Temperature		°C	-40~+85					

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFC-①①①①-②③③④-⑤⑤⑤⑤-⑥⑥⑥⑥-⑦⑧-⑨-⑩-⑪⑪⑫⑫

①①①①	- Wavelength:	1550=1550nm, 1064=1064nm, 980=980nm, SSSS=Specified
②	- Configuration:	3=1x2, 4=2x2
③③	- Tap ratio:	01=1%, 02=2%, 05=5%, ..., 50=50%
④	- Working Axis:	B=Both axis working, F=Fast axis blocked
⑤⑤⑤	- Fiber type for Port 1, 3:	001=PM1550, 003=PM980, 045=PM1950, 067=PM780-HP, SSS=Specified
⑥⑥⑥	- Fiber type for Tap:	001=PM1550, 003=PM980, 004=HI1060, 008=SMF-28E, SSS=Specified
⑦	- Package Dimensions:	0=Φ5.5x35mm, S=Specified
⑧	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑨	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑩	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑪⑪	- Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑫⑫	- Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

780-1550nm Polarization Maintaining Fiber Coupler Module

Features

Max. 128 Channels can be divided
Low Insertion Loss
High Extinction Ratio
High Reliability & Stability

Applications

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

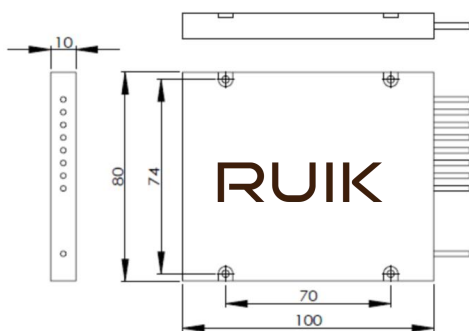
Specifications

Parameters		Unit	Values		
Center Wavelength		nm	1550, 1310	1064, 980	850, 780
Max. Insertion Loss @23°C	1x4	dB	7.5	7.8	8.5
	1x8	dB	11.1	11.5	12.5
	1x16	dB	14.7	15.2	16.5
Max. Wavelength Dependent Loss		dB	0.6	0.8	0.8
Uniformity		dB	0.6		
Min. Extinction Ratio @23°C	Both axis working	dB	18		
	Fast axis blocked	dB	20		
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		
Package Dimensions	ABS Box	mm	100x80x10 or 120x80x10		
	Aluminium Box	mm	140x140x10 or Customized		

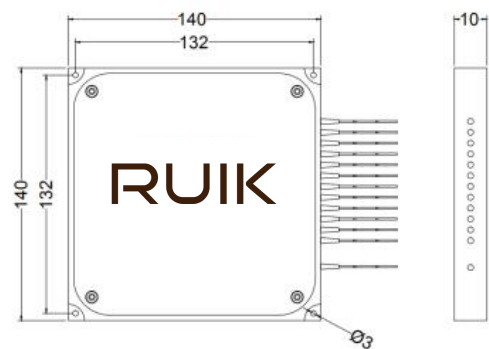
*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



ABS Box: 100x80x10mm



Aluminium Box: 140x140x10mm

Ordering Information

PMFCM-①①①①-②②②-③-④④④-⑤⑥-⑦-⑧

①①①① - Wavelength:	1550=1550nm, 1064=1064nm, 980=980nm, 780=780nm, SSS=Specified
②②② - Configuration:	104=1x4, 108=1x8, 208=2x8, 116=1x16, SSS=Specified
③ - Working Axis:	F=Fast axis blocked, B=Both axis working
④④④ - Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 067=PM780-HP, SSS=Specified
⑤ - Package Dimensions:	0=100x80x10mm, 1=120x80x10mm, 2=140x140x10mm, S=Specified
⑥ - Pigtail Type:	0=bare fiber, 1=900μm loose tube, 2=2.0mm loose tube, 3=3.0mm loose tube
⑦ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

532nm/633nm In-line Polarizer

Features

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

Applications

Test Instrument
Fiber Sensor
Research

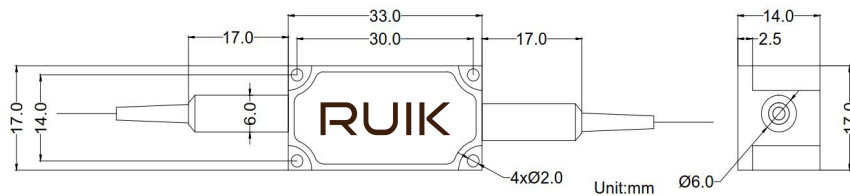
Specifications

Parameters	Unit	Values
Center Wavelength	nm	532, 633
Operating Wavelength Range	nm	±10
Typ. Insertion Loss at 23°C	dB	1.3
Max. Insertion Loss at 23°C	dB	1.5
Min. Return Loss at 23°C	dB	50
Typ. Extinction Ratio at 23°C	dB	24
Min. Extinction Ratio at 23°C	dB	22
Fiber Type for Input & Output	-	SM→SM or SM→PM or PM→PM
Max. Optical Power (CW)	mW	300
Max. Tensile Load	N	5
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85

*With connectors, the Max. handling power is 50mW only, IL is 1.5dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

ILP-①①①-②③-④④④-⑤⑤⑤-⑥⑦-⑧-⑨⑩

①①① - Wavelength:	532=532nm, 633=633nm, SSS=Specified
② - Fiber Type Option:	1=SM→SM, 2=SM→PM, 3=PM→PM
③ - Working Axis:	F=Fast axis blocked, N=Non-PM
④④④ - Fiber Type for Input:	096=PM630-HP, 097=460-HP, 105=PM460-HP, 106=630-HP, SSS=Specified
⑤⑤⑤ - Fiber Type for Output:	096=PM630-HP, 097=460-HP, 105=PM460-HP, 106=630-HP, SSS=Specified
⑥ - Package Dimensions:	0=33x17x11.5mm, S=Specified
⑦ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑧ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨ - Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑩ - Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

780-2050nm 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	Values						
Center Wavelength	nm	2000	1550	1310	1064	980	850	780
Operating Wavelength Range	nm	±50	±50	±50	±30	±10	±10	±10
Typ. Insertion Loss at 23°C	dB	0.8	0.3	0.3	0.5	0.6	0.6	0.6
Max. Insertion Loss at 23°C	dB	1.0	0.5	0.5	0.7	0.8	0.8	0.8
Typ. Extinction Ratio at 23°C	dB	28	30	30	30	30	28	28
Min. Extinction Ratio at 23°C	dB	25	28	28	28	28	25	25
Min. Return Loss	dB	50						
Fiber Type for Input & Output	-	SM→SM or SM→PM or PM→PM						
Max. Optical Power (CW)	mW	300						
Max. Tensile Load	N	5						
Operating Temperature	°C	-5~+70						
Storage Temperature	°C	-40~+85						

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

ILP-①①①①-②③-④④④-⑤⑤⑤-⑥⑦-⑧-⑨⑩

①①①①	- Wavelength:	2000=2000nm, 1550=1550nm, 1064=1064nm, 980=980nm, SSSS=Specified
②	- Fiber Type Option:	1=SM→SM, 2=SM→PM, 3=PM→PM
③	- Working Axis:	F=Fast axis blocked, N=Non-PM
④④④	- Fiber Type for Input:	001=PM1550, 003=PM980, 004=Hi1060, 045=PM1950, SSS=Specified
⑤⑤⑤	- Fiber Type for Output:	001=PM1550, 003=PM980, 004=Hi1060, 045=PM1950, SSS=Specified
⑥	- Package Dimensions:	0=φ5.5x35mm, S=Specified
⑦	- Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑧	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨	- Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑩	- Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

532nm/633nm Polarization Beam Splitter/Combiner

Features

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

Applications

Fiber Optical Current Transducer
Fiber Sensor
Optical Fiber Gyro

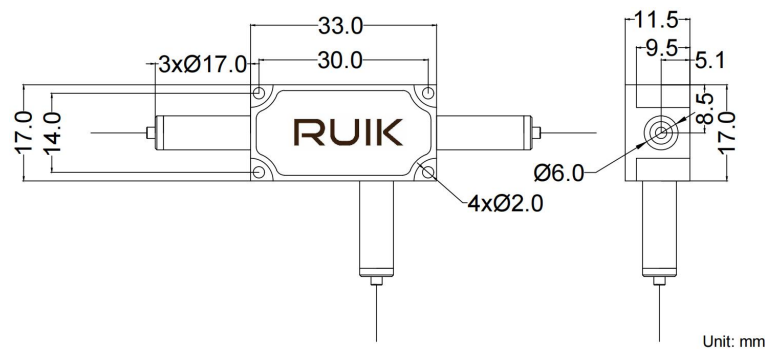
Specifications

Parameters		Unit	Values
Center Wavelength		nm	532, 633
Operating Wavelength Range		nm	±10
Typ. Insertion Loss at 23°C		dB	1.3
Max. Insertion Loss at 23°C		dB	1.5
Min. Extinction Ratio at 23°C		dB	18
Min. Directivity		dB	50
Min. Return Loss		dB	50
Max. Optical Power (CW)		mW	300
Max. Tensile Load		N	5
Fiber Type	P1 & P2	-	PM Panda fiber
	P3 (Com)	-	SM fiber or PM Panda fiber
Operating temperature		°C	-5~+70
Storage temperature		°C	-40~+85

*With connectors, the Max. handling power is 50mW only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PBS-①①①-②-③③③-④④④-⑤⑥-⑦-⑧⑧⑧

PBC-①①①-②-③③③-④④④-⑤⑥-⑦-⑧⑧⑧

①①① - Wavelength:	532=532nm, 633=633nm, SSS=Specified
② - Option for Port 3 to 1&2:	1=SM Fiber to PM Fiber; 2=PM Fiber, P3 slow axis aligns to P1 slow axis, P3 fast axis aligns to P2 slow axis; 3=PM Fiber, P3 is slow axis 45° aligned to P1;
③③③ - Fiber Type for Port 3:	096=PM630-HP, 097=460-HP, 105=PM460-HP, 106=630-HP, SSS=Specified
④④④ - Fiber Type for Port 1&2:	096=PM630-HP, 105=PM460-HP, SSS=Specified
⑤ - Package Dimensions:	0=φ33x17x11.5mm, S=Specified
⑥ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑦ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

780-2050nm Polarization Beam Splitter/Combiner

Features

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

Applications

Fiber Optical Current Transducer
Fiber Sensor
Optical Fiber Gyro
Coherent Telecommunication Systems

Specifications

Parameters		Unit	Values							
Grade		-	P	A	P	A	P	A	P	A
Center Wavelength		nm	2050, 2000, 1950		1550, 1480, 1310		1064, 1030, 980		850, 808, 780	
Operating Wavelength Range		nm	±40		±40		±20		±10	
Typ. Insertion Loss at 23°C		dB	0.8	1.0	0.4	0.5	0.6	0.7	0.7	0.8
Max. Insertion Loss at 23°C		dB	1.2	1.5	0.6	0.7	0.7	0.8	0.9	1.0
Min. Extinction Ratio at 23°C		dB	20	18	22	20	22	20	22	20
Min. Directivity		dB	50							
Min. Return Loss		dB	50							
Max. Optical Power (CW)		mW	300							
Max. Tensile Load		N	5							
Fiber Type	Port 1 & 2	-	PM Panda fiber							
	Port 3	-	SM fiber or PM Panda fiber							
Operating temperature		°C	-5~+70							
Storage temperature		°C	-40~+85							

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PBS-①①①①-②③-④④④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨

PBC-①①①①-②③-④④④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨

①①①①	- Wavelength:	2000=2000nm, 1550=1550nm, 1064=1064nm, 780=780nm, SSS=Specified
②	- Grade:	P=Perfect grade, A=A grade
③	- Option for Port 3 to 1&2:	1=SM Fiber to PM Fiber; 2=PM Fiber, P3 slow axis aligns to P1 slow axis, P3 fast axis aligns to P2 slow axis; 3=PM Fiber, P3 is slow axis 45° aligned to P1;
④④④	- Fiber Type for Port 3:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑤⑤⑤	- Fiber Type for Port 1&2:	001=PM1550, 002=PM1310, 003=PM980, 067=PM780-HP, SSS=Specified
⑥	- Package Dimensions:	0=φ5.5x35mm, S=Specified
⑦	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑧	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨⑨⑨	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1064-2050nm PM In-line Faraday Rotator

Features

Low Insertion Loss
High Return Loss
High Reliability
High Stability

Applications

Fiber Optic Instruments
Fiber Sensors
Fiber Lasers
Coherent Detecting
Research

Specifications

Parameters	Unit	Values		
Center Wavelength	nm	2050, 2000, 1950	1550, 1480, 1310	1064
Operating Wavelength Width	nm	±15	±20	±5
Max. Insertion Loss at 23 °C	dB	1.3	0.5	1.8
Min. Extinction Ratio at 23 °C	dB	18	20	20
Faraday Rotation Angle for CWL	deg	45		
Max. Rotation Angle Tolerance at 23 °C for CWL	deg	±2		
Max. Polarization Mode Dispersion	ps	0.05		
Max. Power Handling (CW)	mW	300		
Max. Tensile Load	N	5		
Axis Alignment	-	Both axis working		
Fiber Type	-	PM Panda Fiber		
Operating Temperature	°C	-5~+70		
Storage Temperature	°C	-40~+85		

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFR-①①①①-②②②-③④-⑤-⑥⑥

①①①① - Wavelength:	2000=2000nm, 1550=1550nm, 1310=1310nm, 1064=1064nm, SSSS=Specified
②②② - Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 045=PM1950, SSS=Specified
③ - Package Dimensions:	0=φ5.5x35mm, S=Specified
④ - Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑤ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑥⑥ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

780-2050nm Polarization Maintaining Fiber Mirror

Features

Low Insertion Loss
High Return Loss
High Reliability
High Stability

Applications

Fiber Optic Instruments
Fiber Sensors
Fiber Lasers
Coherent Detecting
Research

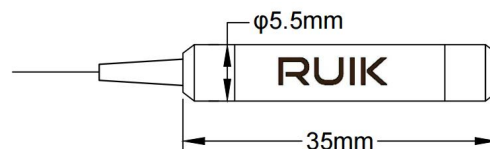
Specifications

Parameters	Unit	Values		
Center Wavelength	nm	2050, 2000, 1950	1550, 1480, 1310	1064, 980, 780
Operating Wavelength Width	nm	±15	±15	±5
Max. Insertion Loss at 23 °C	dB	0.9	0.5	0.7
Min. Extinction Ratio at 23 °C	dB	18	20	20
Max. Polarization Mode Dispersion	ps	0.05		
Max. Power Handling (CW)	mW	300		
Max. Tensile Load	N	5		
Fiber Type	-	PM Panda Fiber		
Operating Temperature	°C	-5~+70		
Storage Temperature	°C	-40~+85		

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFM-①①①①-②②②-③④-⑤-⑥

①①①① - Wavelength:	2000=2000nm, 1550=1550nm, 1064=1064nm, 980=980nm, SSSS=Specified
②②② - Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 045=PM1950, SSS=Specified
③ - Package Dimensions:	0=φ5.5x35mm, S=Specified
④ - Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑤ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑥ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1064-2050nm Polarization Maintaining Faraday Rotator Mirror

Features

Low Insertion Loss
High Return Loss
High Reliability
High Stability

Applications

Fiber Optic Instruments
Fiber Sensors
Fiber Lasers
Coherent Detecting
Research

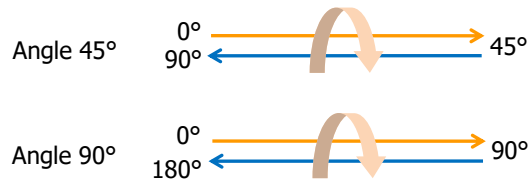
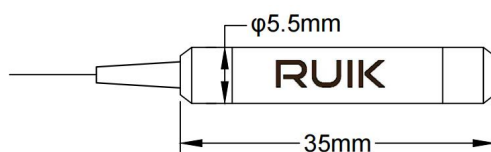
Specifications

Parameters	Unit	Values					
Center Wavelength	nm	2050, 2000, 1950		1550, 1480, 1310		1064	
Operating Wavelength Width	nm	±15		±15		±5	
Faraday Rotation Angle for CWL	deg	45	90	45	90	45	90
Max. Insertion Loss at 23 °C	dB	1.3	1.5	0.6	0.7	3.0	6.5
Min. Extinction Ratio at 23 °C	dB	18		20		20	
Max. Rotation Angle Tolerance for CWL	deg	±3					
Max. Polarization Mode Dispersion	ps	0.05					
Max. Power Handling (CW)	mW	300					
Max. Tensile Load	N	5					
Axis Alignment	-	Both axis working					
Fiber Type	-	PM Panda Fiber					
Operating Temperature	°C	-5~+70					
Storage Temperature	°C	-40~+85					

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFRM-①①①①-②-③③③-④⑤-⑥-⑦

①①①① - Wavelength:	2000=2000nm, 1550=1550nm, 1310=1310nm, 1064=1064nm, SSSS=Specified
② - Rotating Angle:	1=45°, 2=90°
③③③ - Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 045=PM1950, SSS=Specified
④ - Package Dimensions:	0=φ5.5x35mm, S=Specified
⑤ - Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑥ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑦ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

Polarization Maintaining Phase Shifter

Features

Low Insertion Loss
High Reliability
High Stability

Applications

Fiber Laser
Testing Instrument
Research

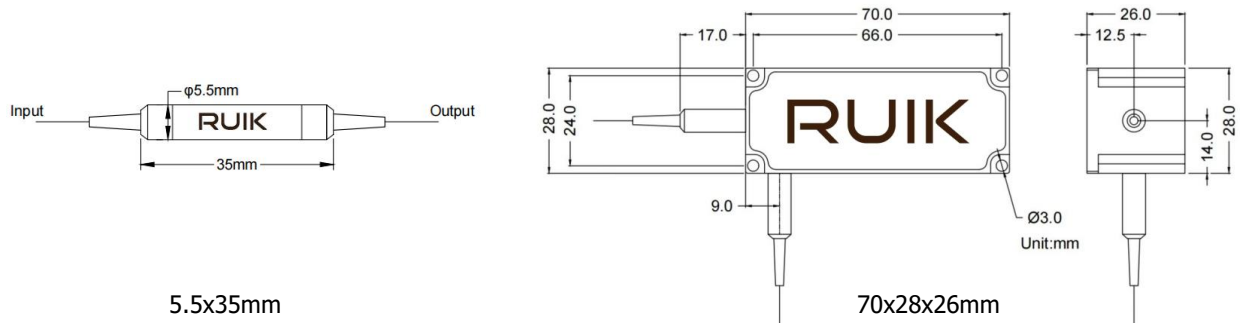
Specifications

Parameters	Unit	Values	
Center Wavelength	nm	1064, 1030	1550
Operating Wavelength Width	nm	±5	±20
Min. Insertion Loss at 23 °C	dB	1.0	0.8
Faraday Rotation Angle for CWL (Single Route)	Deg	45	
Min. Extinction Ratio at 23 °C	dB	20	
Phase Delay	π	1/2 or Specified	
Min. Return Loss at 23 °C	dB	45	
Axis Alignment	-	Slow axis working, Fast axis blocked	
Package Dimensions	mm	70x28x26	5.5x35
Fiber Type	-	PM Panda Fiber	
Optical Power (CW)	W	≤20	≤5
Peak Power for ns Pulse	kW	10 or Specified	
Operating Temperature	°C	+10~+50	
Storage Temperature	°C	0~+60	

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMPS-①①①①-②③-④④④-⑤⑥-⑦-⑧-⑨⑨⑩⑩

①①①① - Wavelength:	1550=1550nm, 1064=1064nm, 1030=1030nm, SSSS=Specified
② - Faraday Rotation Angle:	1=45°, 2=90°
③ - Phase Delay:	0=pi/2, S=Specified
④④④ - Fiber Type:	001=PM1550, 003=PM980, SSS=Specified
⑤ - Package Dimensions:	0=5.5x35mm, 1=70x28x26mm, S=Specified
⑥ - Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑦ - Fiber Length:	0.5=0.5m, 1.0=1m, S=Specified
⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨ - Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, SS=Specified
⑩⑩ - Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

MEMS 1550nm Polarization Maintaining Optical Switch

Features

Low Insertion Loss
High Reliability
High Stability
Modular Design

Applications

Optical Network
Testing Instrument
System Monitoring

Specifications

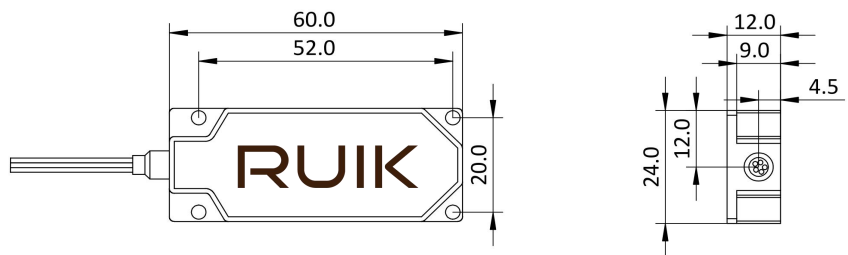
Parameters	Unit	Values
Configuration	-	1x2, 1x4
Center Wavelength	nm	1550
Operating Wavelength Width	nm	±50
Max. Insertion Loss at 23 °C	dB	1.0
Min. Extinction Ratio at 23 °C	dB	18
Min. Return Loss at 23 °C	Com port	dB
	Others	dB
Min. Cross Talk at 23 °C	dB	50
Max. Repeatability	dB	±0.05
Max. Switching Time	ms	20
Switching Lifetime	cycle	10 ⁹
Max. Optical Power	mW	500
Power Supply	-	DC5V±10% / ≤100mA
Package Dimensions	mm	60x24x12
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

*Pin Definition: Customized

Package Dimensions



Unit: mm

Ordering Information

PMSW-①①①①-②-③③③-④⑤-⑥-⑦

①①①①	- Wavelength:	1550=1550nm,SSSS=Specified
②	- Configuration:	1x2, 1x4
③③③	- Fiber Type:	001=PM1550, SSS=Specified
④	- Package Dimensions:	0=60x24x12mm, S=Specified
⑤	- Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑥	- Fiber Length:	0.5=0.5m, 1.0=1m, S=Specified
⑦	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

532-2050nm PM Manual Variable Optical Attenuator

Features

High Precision
Wide Attenuation Range
Low Insertion Loss

Applications

Optical Communication Systems Test
Optics Laboratory

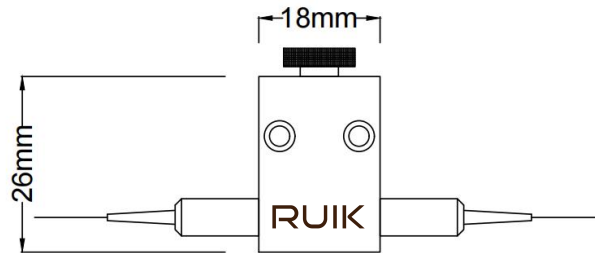
Specifications

Parameters	Unit	Values				
Center Wavelength	nm	2050, 2000	1550, 1310	1064, 980	850, 780	633, 532
Operating Wavelength Range	nm	±40	±40	±20	±20	±20
Attenuation Range	dB	0.8~60	0.6~60	0.6~60	0.7~60	0.8~60
Max. Insertion Loss at 23°C	dB	0.8	0.6	0.6	0.8	1.0
Min. Extinction Ratio at 23°C	dB	18	20	20	20	18
Min. Return Loss at 23°C	dB	50				
Adjustment Precision	dB	0.02				
Max. Power Handling (CW)	mW	500				
Fiber Type	-	PM Panda Fiber				
Operating Temperature	°C	0 ~ +70				
Storage Temperature	°C	-40~+85				
Package Dimensions	mm	26x18x8				

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMMVOA-①①①①-②-③③③-④⑤-⑥-⑦⑦

①①①①	- Wavelength:	2000=2000nm, 1550=1550nm, 1310=1310nm, 1064=1064nm, SSSS=Specified
②	- Working Axis:	B=Both axis working, F=Fast axis blocked
③③③	- Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, 045=PM1950, SSS=Specified
④	- Package Dimensions:	0=26x18x8mm, S=Specified
⑤	- Pigtail Type:	0=bare fiber, 1=900μm loose tube, S=Specified
⑥	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑦⑦	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

Polarization Maintaining Fiber Patchcord

Features

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

Applications

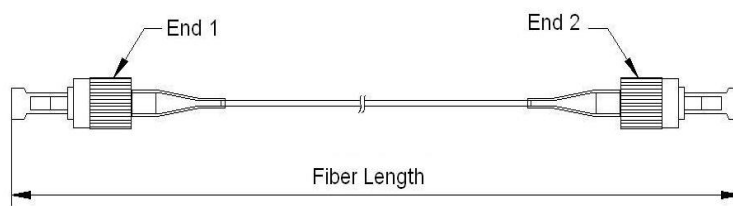
Optical Fiber Amplifiers
Test Instrument
Fiber Sensor
Research
Fiber Laser

Specifications

Parameters		Unit	Values			
Connector Type		-	FC, SC, LC			
Center Wavelength		nm	2000, 1950	1550, 1310	1060, 980	850, 780, 633, 532
Max. Insertion Loss at 23 °C		dB	0.5	0.3	0.5	0.5, 1.2
Min. Extinction Ratio at 23°C		dB	22	23	23	22, 20
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			

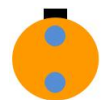
*The default connector key is aligned to slow axis.

Package Dimensions



Key Orientation:

Slow Axis



Fast Axis



Ordering Information

PMJP-①①①①-②-③③③-④-⑤-⑥⑦

①①①①	- Wavelength:	2000=2000nm, 1550=1550nm, 1310=1310nm, 1064=1064nm, 980=980nm,...
②	- Axis Alignment:	S=Slow axis, F=Fast axis
③③③	- Fiber Type:	001=PM1550, 002=PM1310, 003=PM980, SSS=Specified
④	- Pigtail Type:	0=bare fiber, 1=900μm loose tube, 2=2.0mm loose tube, 3=3.0mm loose tube
⑤	- Fiber Length:	0.75=0.75m, 1.0=1m, ..., 20=20m, S=Specified
⑥	- Connector for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑦	- Connector for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

(2+1)x1 PM Pump & Signal Combiner

Features

High Transfer Efficiency
Stable and Reliable
Custom Configurations Available

Applications

High Power Fiber Laser
Fiber Amplifier

Specifications

Parameters	Unit	Values					
Port Configuration	-	(1+1)x1 or (2+1)x1					
Pump Wavelength	nm	800-1000nm					
Signal Wavelength	nm	1030-1080 or 1450-1600nm					
Signal Input Fiber	-	X/125		X/250		20/400	
Pump Fiber	-	105/125		105/125 or 200/220		200/220	
Signal Output Fiber	-	Y/125	Y/250	Y/250		20/400	
Extinction Ratio at 23°C	dB	≥18	≥16	≥16		≥16	
Signal Insertion Loss at 23°C	dB	≤0.5	≤0.7	≤0.5	≤0.5	≤0.5	≤0.5
Pump Efficiency at 23°C	%	>90					
Max. Handling Power / per Pump	W	≤50		≤100		≤200	
Return Loss at 23°C	dB	>45					
Package Dimensions	mm	D1, D2, D3, D4, D5, D6, D7 or Customized					
Operating Temperature	°C	-5~+70					
Storage Temperature	°C	-40~+85					

Ordering Information

MPC-①①①-②②②-③-④④④-⑤⑤⑤-⑥-⑦⑦⑦-⑧⑧⑧

①①① - Port Configuration:	011=(1+1)x1, 021=(2+1)x1
②②② - Fiber Type for Input:	003=PM980, 018=PM 10/125DCF, SSS=Specified
③ - Fiber Type for Pump:	1=MM-S105/125-22A, 2=MM-S200/220-22A, S=Specified
④④④ - Fiber Type for Output:	018=PM 10/125DCF, 024=PLMA-GDF-25/250-M, SSS=Specified
⑤⑤⑤ - Package Dimensions:	D1=φ4.0x60, D3=70x12x8mm, S=Specified
⑥ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑦⑦⑦ - Handling Power/Signal:	005=5W, 010=10W, 100=100W, SSS=Specified
⑧⑧⑧ - Handling Power/Per Pump:	005=5W, 010=10W, 100=100W, 200=200W, SSS=Specified

Notes:

- Package Dimensions: D1:φ4.0x60mm, D2:50x5x5mm, D3:70x12x8mm, D6=100x15x10mm, D7=100x28x12.6mm-HP, C=Customized;
- Please feel free to contact us if you need more fiber selections;

(6+1)x1 PM Pump & Signal Combiner

Features

High Transfer Efficiency
Stable and Reliable
Custom Configurations Available

Applications

High Power Fiber Laser
Fiber Amplifier

Specifications

Parameters	Unit	Values		
Port Configuration	-	(6 +1)x1		
Pump Wavelength	nm	800-1000nm		
Signal Wavelength	nm	1030-1080 or 1450-1600nm		
Signal Input Fiber	-	X/125	X/250	20/400
Pump Fiber	-	105/125	105/125 or 200/220	200/220
Signal Output Fiber	-	Y/125	Y/250	20/400
Extinction Ratio at 23°C	dB	≥18	≥16	≥16
Pump Efficiency at 23°C	%	>90	>95	>97
Signal Insertion Loss at 23°C	dB	≤0.7		
Max. Handling Power / per Pump	W	≤100	≤200	≤200
Return Loss at 23°C	dB	>45		
Package Dimensions	mm	D6, D7 or Customized		
Operating Temperature	°C	-5~+70		
Storage Temperature	°C	-40~+85		

Ordering Information

MPC-①①①-②②②-③-④④④-⑤⑤-⑥-⑦-⑧⑧⑧-⑨⑨⑨

①①① - Port Configuration:	061=(6+1)x1
②②② - Fiber Type for Input:	003=PM980, 018=PM 10/125DCF, SSS=Specified
③ - Fiber Type for Pump:	1=MM-S105/125-22A, 2=MM-S200/220-22A, S=Specified
④④④ - Fiber Type for Output:	018=PM 10/125DCF, 024=PLMA-GDF-25/250-M, SSS=Specified
⑤⑤ - Package Dimensions:	D3=70x12x8mm, D6=100x15x10mm, S=Specified
⑥ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑦⑦⑦ - Handling Power/Signal:	005=5W, 010=10W, 100=100W, SSS=Specified
⑧⑧⑧ - Handling Power/Per Pump:	005=5W, 010=10W, 100=100W, 200=200W, SSS=Specified

Notes:

- Package Dimensions: D3=70x12x8mm, D6=100x15x10mm, D7=100x28x12.6mm-HP, D8=150x15x12mm
C=Customized;
- Please feel free to contact us if you need more fiber selections;

Mode Field Adapter (PM or Non-PM)

Features

High Transfer Efficiency
High Power
High Stability and Reliability
Custom Configurations Available

Applications

High Power Fiber Laser
Fiber Amplifier

Specifications

Parameters	Values				
Port Configuration	1x1				
Signal Wavelength	1030~1080nm or 1450~1600nm				
Input Fiber (SMF)	6/125	10/125	10/125	10/125	10/125
Output Fiber (LMA)	10/125	15/125	20/125	25/250	20/400
Total Handling Power	30W	30W	30W	50W	100W
Signal Insertion Loss at 23°C (Forward Route)	≤0.5dB				
Extinction Ratio at 23°C (PM Fiber Type)	≥18dB				
Polarization Dependent Loss (SM Fiber Type)	≤0.15dB				
Return Loss at 23°C	≥45dB				
Package Dimensions	D1, D2, D3, D4, D5, D6, D7				
Operating Temperature	-5~+70				
Storage Temperature	-40~+85				

Ordering Information

MFA-①-②②②-③③③-④④-⑤-⑥-⑦⑦

① - Port Configuration:	1=1x1
②②② - Fiber Type for Input:	003=PM980, 018=PM 10/125DCF, SSS=Specified
③③③ - Fiber Type for Output:	018=PM 10/125DCF, SSS=Specified
④④ - Package Dimensions:	D1, D2, D3, D4, D5, D6, D7, S= Specified
⑤ - Pigtail Type:	0=bare fiber, 1=900um loose tube
⑥ - Fiber Type:	0.75=0.75m, 1.0=1m, S=Specified
⑦⑦ - Handling Power/Signal:	05=5W, 10=10W, 20=20W, SS=Specified

Notes:

- Package Dimensions: D1:φ4.0x60mm, D2:50x5x5mm, D3:70x12x8mm, D6=100x15x10mm, D7=100x28x12.6mm-HP, C=Customized;
- Please feel free to contact us if you need more fiber selections;

Cladding Power Stripper

Features

High Stripping Efficiency
Low Signal Loss and Beam Quality Degradation
Stable and Reliable
Custom Configurations Available

Applications

High Power Fiber Laser
Fiber Amplifier

Specifications

Parameters	Values		
Port Configuration	1x1		
Signal Wavelength	800~2000nm		
Pump Wavelength	800~2000nm		
Signal Fiber	X/125	X/250	X/400
Cladding Power Attenuation at 23°C	>20dB	>18dB	>18dB
Signal Insertion Loss at 23°C	<0.2dB		
Max. Cladding Power	20W	100W	1000W
Polarization Extinction Ratio at 23°C	>18dB (for PM fiber)		
Return Loss at 23°C	>45dB		
Package Dimensions	D1, D2, D3, D4, D5, D6, D7		
Operating Temperature	-5~+70		
Storage Temperature	-40~+85		

Ordering Information

CPS-①-②②②-③③-④-⑤-⑥⑥⑥-⑦⑦⑦

①	- Port Configuration:	1=1x1
②②②	- Fiber Type for Signal:	SSS=Specified
③③	- Package Dimensions:	D1, D2, D3, D4, D5, D6, D7, SS=Specified
④	- Pigtail Type:	0=250um bare fiber, 1=900um loose tube
⑤	- Fiber Length:	0.75=0.75m, 1.0=1.0m, S=Specified
⑥⑥⑥	- Handling Power for Signal:	005=5W, 010=10W, 100=100W, SSS=Specified
⑦⑦⑦	- Cladding Power:	005=5W, 010=10W, 100=100W, SSS=Specified

Notes:

1. Package Dimensions: D1:φ4.0x60mm, D2:50x5x5mm, D3:70x12x8mm, D6=100x15x10mm, D7=100x28x12.6mm-HP, C=Customized;

2. Please feel free to contact us if you need more fiber selections;

1064-2050nm PM Tap Isolator Hybrid (Faraday Based)

Features

Low Insertion Loss
High Return Loss
High Extinction Ratio
High Isolation

Applications

Compact Fiber Amplifiers
Compact Fiber Optical System
Fiber Laser
Fiber Sensor

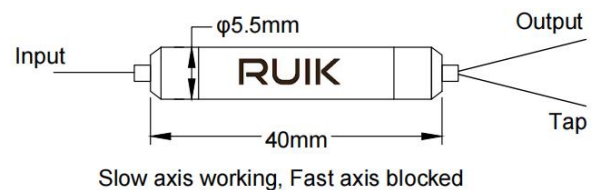
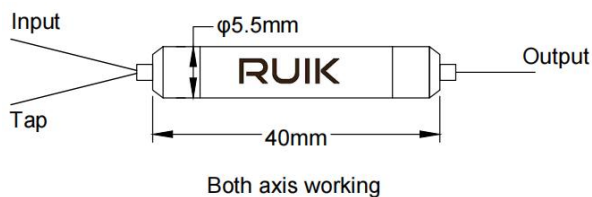
Specifications

Parameters	Unit	Values					
Stage	-	Single	Dual	Single	Dual	Single	Dual
Center Wavelength	nm	1950, 2000, 2050		1550, 1310		1064	
Operating Wavelength Range	nm	±10		±15		±5	
Max. Excess Loss at 23°C	dB	1.5	1.8	1.0	1.2	2.0	3.5
Typ. Peak Isolation	dB	22	35	40	52	40	52
Min. Isolation at 23°C	dB	20	30	28	45	28	45
Min. Extinction Ratio at 23°C	dB	20					
Signal Tap Ratio	%	1±0.2%, 2±0.4%, 5±1%, 10±2%					
Min. Return Loss at 23°C	dB	50					
Max. Optical Power (CW)	mW	300					
Max. Tensile Load	N	5					
Fiber Type	-	PM Panda Fiber					
Operating Temperature	°C	0~+70					
Storage Temperature	°C	-40~+85					

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

More Details



Options for Working Axis

Option 1, 2x1

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

Option 2, 2x1

Input→Output: Both axis working
Input→Tap: Both axis working

Option 3, 2x1

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

Option 4, 2x1

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

Option 5, 1x2

Input→Output: Fast axis blocked
Input→Tap: Fast axis blocked

Option 6, 1x2

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

PI: Polarization Insensitive

PS: Polarization Sensitive

1064-2050nm PM Tap Isolator Hybrid (Faraday Based)

Ordering Information

PMTIS-①①①①-②③④④-⑤⑤⑤⑤-⑥⑥⑥⑥-⑦⑧-⑨-⑩⑩⑪

①①①① - Wavelength:	2000=2000nm, 1950=1950nm, 1550=1550nm, 1064=1064nm, SSSS=Specified
② - Working Axis:	1=Option 1, 2=Option 2, 3=Option 3, 4=Option 4, 5=Option 5, 6=Option 6
③ - Stage:	S=Single-core, D=Dual-core
④④ - Tap ratio:	01=1%, 02=2%, ..., 50=50%
⑤⑤⑤ - Fiber Type for In & Out:	001=PM1550, 003=PM980, 045=PM1950, SSS=Specified
⑥⑥⑥ - Fiber Type for Tap:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑦ - Package Dimensions:	0=φ5.5x40mm, S=Specified
⑧ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑨ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑩⑩ - Connector for In & Out:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑪ - Connector for Tap:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

For example: Product model [PMTIS-1064-1S01-003-003-01-0.8-000](#) on behalf of:

PM Tap Isolator, 1064nm, 300mW CW power handling, option 1 (2x1, Input to Output: Fast axis blocked, Input to Tap: Both axis working), Single stage, 1% tap ratio, PM980 fiber for all ports, φ5.5x40mm, 900μm loose tube, 0.8m, FC/UPC connectors for all ports.

PM Isolator & WDM Hybrid (Faraday Based)

Features

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

Applications

Fiber Laser
Fiber Amplifier
Testing Equipment

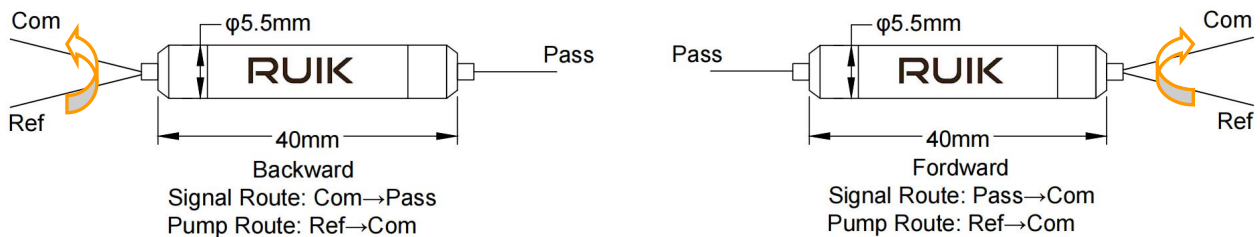
Specifications

Parameters		Unit	Values					
Stage		-	Single	Dual	Single	Dual	Single	Dual
Signal Channel	Signal Wavelength Range	nm	2000±10		1550±15		1064±5	
	Max. Insertion Loss at 23°C	dB	1.5	1.8	0.9	1.0	2.0	3.5
	Typ. Peak Signal Reversed Isolation	dB	22	35	40	52	40	52
	Min. Signal Reversed Isolation at 23°C	dB	20	30	28	45	28	45
	Min. Isolation (Com to Pass @Ref Wavelength)	dB	25		30		30	
	Min. Extinction Ratio at 23°C	dB	20		20		20	
Reflection Channel	Wavelength Range	nm	1550±30		960~990		960~990	
	Max. Insertion Loss at 23°C	dB	0.6		0.6		0.6	
	Min. Isolation (Com to Ref @Signal Wavelength)	dB	12		15		15	
	Min. Extinction Ratio at 23°C	dB	18		18		18	
Min. Return Loss at 23°C		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					

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMIWDM-①①①①-②③④-⑤⑤⑤-⑥⑥⑥-⑦⑧-⑨-⑩⑩⑩

①①①①	Operating Wavelength:	2055=T2000/R1550nm, 5598=T1550/R980nm, SSS=Specified
②	Stage:	S=Single-core, D=Dual-core
③	Pump Type:	F=Forward, B=Backward
④	Working Axis for Signal Route:	B=Both axis working, F=Fast axis blocked
⑤⑤⑤	Fiber Type for Com & Pass:	001=PM1550, 003=PM980, 045=PM1950, SSS= Specified
⑥⑥⑥	Fiber Type for Ref:	001=PM1550, 003=PM980, 045=PM1950, 004=Hi1060, SSS=Specified
⑦	Package Dimensions:	0=φ5.5x40mm, S=Specified
⑧	Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑨	Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑩⑩⑩	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1064-2050nm Optical Isolator & Bandpass Filter

Features

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

Applications

Fiber Laser
Test Instrument
Fiber Sensor
EDFA

Specifications

Parameters	Unit	Values					
Stage	-	Single	Dual	Single	Dual	Single	Dual
Center Wavelength	nm	2000		1550		1064	
Operating Wavelength Range	nm	±10		±10		±5	
Min. Signal Isolation at 23°C	dB	22	30	28	45	28	45
Max. Insertion Loss at 23°C	dB	1.5	1.8	0.8	1.0	2.0	3.5
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20					
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15					
Min. Pass Bandwidth (@-0.5dB)	nm	2, 5, 8, 15 or Specified					
Max. Stop Bandwidth (@-25dB)	nm	As Specified					
Min. Return loss at 23°C	dB	50					
Max. Power Handling (CW)	mW	300					
Max. Tensile Load	N	5					
Operating Temperature	°C	0 ~ +70					
Storage Temperature	°C	-40 ~ +85					

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMIBPF-①①①①-②③④④-⑤⑤⑤-⑥⑦-⑧-⑨⑨ (PM Fiber Type)

PIIBPF-①①①①-②③④④-⑤⑤⑤-⑥⑦-⑧-⑨⑨ (SM Fiber Type)

①①①① - Wavelength:	2000=2000nm, 1550=1550nm, 1064=1064nm, SSSS=Specified
② - Stage:	S=Single-core, D=Dual-core
③ - Working Axis:	B=Both axis working, F=Fast axis blocked
④④ - Pass Bandwidth @-0.5dB:	02=2nm, 05=5nm, 10=10nm, SS=Specified
⑤⑤⑤ - Fiber Type:	001=PM1550, 003=PM980, 045=PM1950, SSS=Specified
⑥ - Package Dimensions:	0=φ5.5x40mm, S=Specified
⑦ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑧ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨⑨ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

1064-2050nm Isolator & Polarization Beam Splitter/Combiner

Features

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

Applications

EDFA & Raman Amplifier
Fiber Sensor
Coherent Telecommunication Systems
Polarization Mode Dispersion Compensator

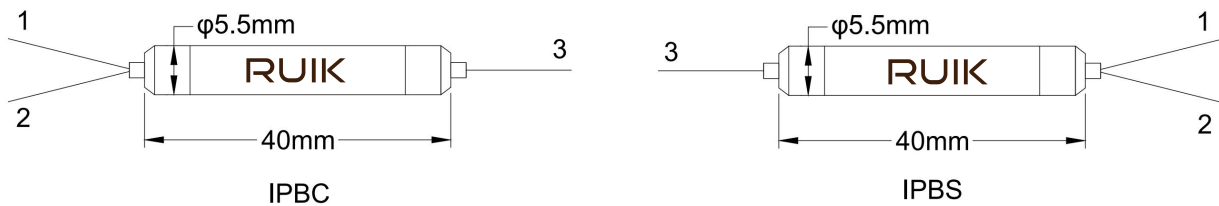
Specifications

Parameters		Unit	Values			
Stage		-	Single			Dual
Center Wavelength		nm	2000	1550, 1310	1064	2000, 1550, 1310
Operating Wavelength Range		nm	±20	±20	±5	±20
Min. Isolation at 23°C (P3 to P1 & P2)		dB	18	28	25	30
Max. Insertion Loss at 23°C		dB	1.5	0.7	2.1	1.8
Min. Extinction Ratio at 23°C		dB	20	22	22	20
Min. Directivity		dB	50			
Min. Return Loss at 23°C		dB	50			
Max. Optical Power (CW)		mW	300			
Max. Tensile Load		N	5			
Fiber Type	P1 & P2	-	PM Panda fiber			
	P3 (Com)	-	PM Panda fiber or SMF-28E, Hi1060			
Operating Temperature		°C	-5~+70			
Storage Temperature		°C	-40~+85			

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMIPBC-①①①①-②③-④④④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨

PMIPBS-①①①①-②③-④④④-⑤⑤⑤-⑥⑦-⑧-⑨⑨⑨

①①①①	- Wavelength:	2000=2000nm, 1550=1550nm, 1064=1064nm, SSS=Specified
②	- Stage:	S=Single-core, D=Dual-core
③	- Option for Port 3 to 1&2:	1=SM Fiber to PM Fiber; 2=PM Fiber, P3 slow axis aligns to P1 slow axis, P3 fast axis aligns to P2 slow axis; 3=PM Fiber, P3 is slow axis 45° aligned to P1;
④④④	- Fiber Type for P3:	001=PM1550, 003=PM980, 008=SMF-28E, 045=PM1950, SSS=Specified
⑤⑤⑤	- Fiber Type for P1 & P2:	001=PM1550, 003=PM980, 045=PM1950, SSS=Specified
⑥	- Package Dimensions:	0=φ5.5x40mm, S=Specified
⑦	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑧	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑨⑨⑨	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

PM Tap Coupler & WDM Hybrid

Features

Low Insertion Loss
High Return Loss
High Reliability & Stability

Applications

CATV System
CWDM/DWDM Module
EPon/Gpon Networks

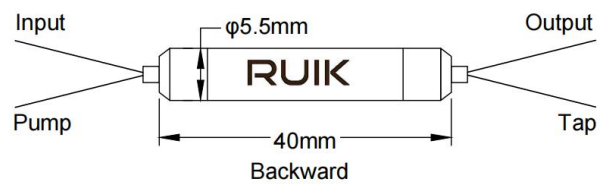
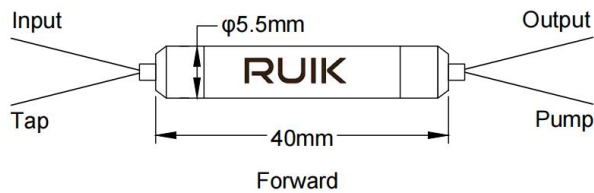
Specifications

Parameters	Unit	Values				
Type	nm	1064/980	1550/980	1550/1064	1550/1480	2000/1550
Transmission Wavelength	nm	1020~1080	1520~1580	1520~1580	1535~1565	1950~2050
Reflection Wavelength	nm	960~990	960~990	1020~1080	1480±10	1550±30
Max. Excess Loss at 23°C	dB	1.2	1.0	1.0	1.0	1.5
Signal Tap Ratio	%	1±0.2%, 5±1%, 50±2%				
Min. Transmission Isolation @Reflection	dB	30	30	30	30	25
Min. Reflection Isolation @Transmission	dB	15	15	15	15	12
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 at 23°C	dB	50				
Max. Power Handling (CW)	mW	500				
Max. Tensile Load	N	5				
Operating Temperature	°C	0~+70				
Storage Temperature	°C	-40~+85				

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMTWDM-①①①①-②③④④-⑤⑤⑤-⑥⑥⑥-⑦⑧-⑨-⑩⑩⑩⑩

①①①① - Wavelength:	5506=T1550nm/R1064nm, 0698=T1064nm/R980nm, SSS=Specified
② - Pump Type:	F=Forward, B=Backward
③ - Working Axis for Signal Route:	B=Both axis working, F=Fast axis blocked
④④ - Tap ratio:	01=1%, 02=2%, ..., 50=50%
⑤⑤⑤ - Fiber Type for Com & Pass:	001=PM1550, 003=PM980, SSS=Specified
⑥⑥⑥ - Fiber Type for Ref:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑦ - Package Dimensions:	0=φ5.5x40mm, S=Specified
⑧ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑨ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑩⑩⑩⑩ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

PM Isolator & Tap & WDM Hybrid (Faraday Based)

Features

Low Insertion Loss
High Return Loss
High Extinction Ratio
High Isolation

Applications

EDFA
Fiber Laser
Research

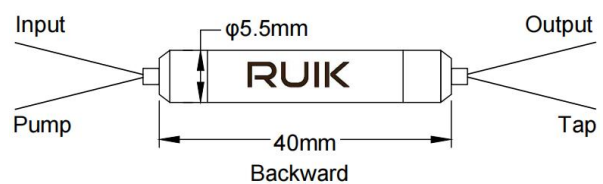
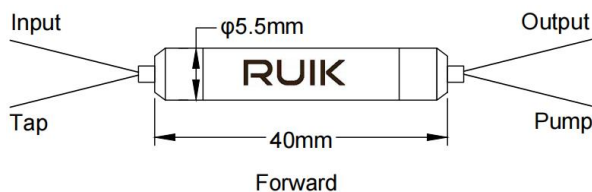
Specifications

Parameters		Unit	Values					
Stage		-	Single	Dual	Single	Dual	Single	Dual
Signal Wavelength		nm	2000		1550		1064	
Signal Wavelength Range		nm	±15		±30		±5	
Max. Excess Loss, λ _c at 23°C (Input to Output)		dB	1.8	2.0	1.3	1.4	2.5	3.5
Min. Signal Isolation, λ _c at 23°C (Output to Input)		dB	22	30	28	45	28	45
Min. Isolation at 23°C	Signal Channel	dB	25					
	Pump Channel	dB	12					
Tap Ratio		%	1±0.2%, 2±0.4%, 5±1%, 10±2%					
Pump Wavelength Range		nm	1550±20		980±10		980±10	
Max. Insertion Loss (Pump Channel)		dB	0.7		0.7		0.7	
Min. Extinction Ratio at 23°C (PM Fiber Channel)		dB	18		20		20	
Min. Return Loss at 23°C		dB	50					
Max. Optical Power (CW)		mW	300					
Max. Tensile Load		N	5					
Operating Temperature		°C	-5~+50					
Storage Temperature		°C	-40~+85					

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

More Details



Option 1, Forward pump

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

Option 2, Forward pump

Input→Tap: Both axis working
Input→Output: Both axis working

Option 3, Backward pump

Input→Tap: Fast axis blocked
Input→Output: Fast axis blocked

Option 4, Forward pump

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

Option 5, Forward pump

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

Option 6, Backward pump

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

PI: Polarization Insensitive

PS: Polarization Sensitive

PM Isolator & Tap & WDM Hybrid (Faraday Based)

Ordering Information

PMTIWDM-①①①①-②③④④-⑤⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧⑨-⑩-⑪⑫⑬⑭

①①①① - Wavelength:	2055=T2000/R1550nm, 5598=T1550/R980nm, 0698=T1064/980nm
② - Working Axis:	1=Option 1, 2=Option 2, 3=Option 3, 4=Option 4, 5=Option 5, 6=Option 6
③ - Stage:	S=Single-core, D=Dual-core
④④ - Tap ratio:	01=1%, 02=2%, ..., 50=50%
⑤⑤⑤ - Fiber type for In & Out:	001=PM1550, 003=PM980, 045=PM1950, SSS=Specified
⑥⑥⑥ - Fiber type for Pump:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑦⑦⑦ - Fiber type for Tap:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑧ - Package Dimensions:	0=φ5.5x40mm, S=Specified
⑨ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑩ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑪ - Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑫ - Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑬ - Connector Type for Pump:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑭ - Connector Type for Tap:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

For example: Product model [PMTIWDM-5598-1S01-001-003-001-01-0.8-0000](#) on behalf of:

PM Isolator+Tap+WDM hybrid, T1550/R980nm, 300mW CW power handling, option 1 (Forward pump, Input to Output: Fast axis blocked, Input to Tap: Both axis working), Single stage, 1% tap ratio, PM1550 fiber on In & Out & Tap port, PM980 fiber on Pump port, φ5.5x40mm, 900μm loose tube, 0.8m, FC/UPC connectors for all ports.

1064-2050nm PM Isolator & Tap & Bandpass Filter

Features

Low Insertion Loss
High Return Loss
High Extinction Ratio
High Isolation

Applications

EDFA
Pump Laser
Optics Cutting
Research

Specifications

Parameters	Unit	Values					
Stage	-	Single	Dual	Single	Dual	Single	Dual
Signal Wavelength	nm	2000±15		1550±15		1064±5	
Min. Signal Isolation, λ_c at 23°C (Output to Input)	dB	22	30	28	45	28	45
Max. Excess Loss, λ_c at 23°C (Input to Output)	dB	1.8	2.0	1.2	1.4	2.5	3.5
Min. Extinction Ratio at 23°C	dB	20					
Tap Ratio	%	1±0.2%, 2±0.4%, 5±1%, 10±2%					
Min. Pass Bandwidth (@-0.5dB)	nm	2, 5, 8, 15 or Specified					
Max. Stop Bandwidth (@-25dB)	nm	As Specified					
Min. Return Loss at 23°C	dB	50					
Max. Optical Power (CW)	mW	300					
Max. Tensile Load	N	5					
Operating Temperature	°C	-5~+50					
Storage Temperature	°C	-40~+85					

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

More Details



Options for Working Axis

Option 1, 2x1

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

Option 2, 2x1

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

Option 3, 2x1

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

Option 4, 1x2

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

Option 5, 1x2

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

1064-2050nm PM Isolator & Tap & Bandpass Filter

Ordering Information

PMTIBPF-①①①①-②③④④-⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧⑨-⑩-⑪⑫⑬

①①①① - Wavelength:	2000=2000nm, 1064=1064nm, 1550=1550nm, SSS=Specified
② - Working Axis:	1=Option 1, 2=Option 2, 3=Option 3, 4=Option 4, 5=Option 5
③ - Stage:	S=Single-core, D=Dual-core
④④ - Pass Bandwidth @-0.5dB:	02=2nm, 05=5nm, 10=10nm, SS=Specified
⑤⑤ - Tap ratio:	01=1%, 02=2%, ..., 50=50%
⑥⑥⑥ - Fiber type for In & Out:	001=PM1550, 003=PM980, 045=PM1950, SSS=Specified
⑦⑦⑦ - Fiber type for Tap:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑧ - Package Dimensions:	0=φ5.5x40mm, S=Specified
⑨ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑩ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑪ - Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑫ - Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑬ - Connector Type for Tap:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

For example: Product model [PMTIBPF-1550-1S02-01-001-001-00-0.8-NNN](#) on behalf of:

PM Isolator+Tap+Bandpass Filter, 1550nm, 300mW CW power handling, option 1 (2x1, Input to Output: Fast axis blocked, Input to Tap: Both axis working), Single stage, Pass bandwidth @-0.5dB: 2nm, 1% tap ratio, PM1550 fiber, φ5.5x40mm, bare, 0.8m, no connector.

PM Isolator & Tap & WDM & Bandpass Filter (Faraday Based)

Features

Low Insertion Loss
High Return Loss
High Extinction Ratio
High Isolation

Applications

EDFA
Pump Laser
Optics Cutting
Research

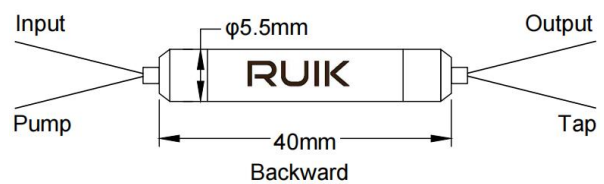
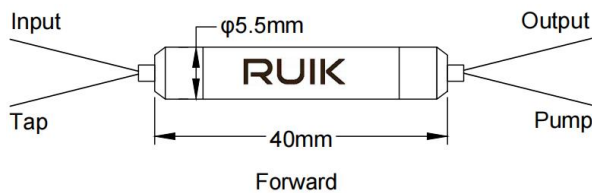
Specifications

Parameters		Unit	Values					
Stage		-	Single	Dual	Single	Dual	Single	Dual
Signal Wavelength		nm	2000		1550		1064	
Signal Wavelength Range		nm	±15		±30		±15	
Max. Excess Loss, λ _c at 23°C (Input to Output)		dB	1.8	2.0	1.3	1.4	2.5	3.5
Min. Signal Isolation, λ _c at 23°C (Output to Input)		dB	22	30	28	45	28	45
Min. Isolation at 23°C	Signal Channel	dB	25		30		30	
	Pump Channel	dB	12		15		15	
Min. Pass Bandwidth (@-0.5dB)		nm	2, 5, 8, 15 or Specified					
Max. Stop Bandwidth (@-25dB)		nm	Specified					
Tap Ratio at 23°C		%	1~50					
Pump Wavelength Range		nm	1550±20		980±10		980±10	
Max. Insertion Loss (Pump Channel)		dB	0.7		0.7		0.7	
Min. Extinction Ratio at 23°C (PM Fiber Channel)		dB	18		20		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					

*With connectors, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

More Details



Option 1, Forward pump

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

Option 2, Forward pump

Input→Tap: Both axis working
Input→Output: Both axis working

Option 3, Backward pump

Input→Tap: Fast axis blocked
Input→Output: Fast axis blocked

Option 4, Forward pump

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

Option 5, Forward pump

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

Option 6, Backward pump

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

PI: Polarization Insensitive

PS: Polarization Sensitive

PM Isolator & Tap & WDM & Bandpass Filter (Faraday Based)

Ordering Information

PMTIBW-①①①①-②③④④-⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧⑧⑧-⑨⑩-⑪-⑫⑬⑭⑮

①①①①	- Wavelength:	2055=T2000/R1550nm, 5598=T1550/R980nm, 0698=T1064/980nm
②	- Working Axis:	1=Option 1, 2=Option 2, 3=Option 3, 4=Option 4, 5=Option 5, 6=Option 6
③	- Stage:	S=Single-core, D=Dual-core
④④	- Pass Bandwidth @-0.5dB:	02=2nm, 05=5nm, 10=10nm, 15=15nm, SS=Specified
⑤⑤	- Tap ratio:	01=1%, 02=2%, ..., 50=50%
⑥⑥⑥	- Fiber type for In & Out:	001=PM1550, 003=PM980, 045=PM1950, SSS=Specified
⑦⑦⑦	- Fiber type for Pump:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑧⑧⑧	- Fiber type for Tap:	001=PM1550, 003=PM980, 004=Hi1060, 008=SMF-28E, SSS=Specified
⑨	- Package Dimensions:	0=φ5.5x40mm, S=Specified
⑩	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑪	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑫	- Connector Type for Input:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑬	- Connector Type for Output:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑭	- Connector Type for Pump:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑮	- Connector Type for Tap:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified

For example: Product model **PMTIBW-5598-1S02-01-001-003-001-00-0.8-NNNN** on behalf of:

PMTIBW, T1550/R980, Option1 (Forward pump, Input to Tap: Both axis working, Input to Output: Fast axis blocked), 2nm band width, Single-core, 1% tap ratio, in&out&tap: PM1550 fiber, Pump: PM980 fiber, 5.5x40mm package, bare fiber, 0.8m, no connector.

780-1080nm High Power Tap Isolator Hybrid (TGG Based)

Features

Low Insertion Loss
High Return Loss
High Extinction Ratio
High Isolation

Applications

Fiber Laser
Compact Fiber Optical System
Fiber Sensor

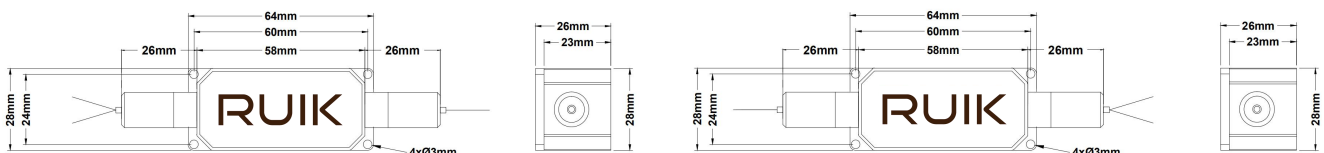
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1080, 1064, 1030, 980, 850, 780
Operating Wavelength Range	nm	±5
Max. Excess Loss at 23°C	dB	1.0
Signal Tap Ratio	%	1±0.2%, 2±0.4%, 5±1%, 10±2%
Min. Isolation, $\lambda_c \pm 10\text{nm}$ at 23°C	dB	25
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return Loss at 23°C	dB	50
Max. Optical Power (CW)	W	0.3, 1, 2, 5, 10, 20 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

More Details



Option 1, 2x1

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

Option 2, 2x1

Input→Output: Both axis working
Input→Tap: Both axis working

Option 3, 2x1

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

Option 4, 2x1

Input→Output: SM to SM, Polarization Insensitive
Input→Tap: SM to SM, Polarization Insensitive

Option 5, 1x2

Input→Output: Fast axis blocked
Input→Tap: Fast axis blocked

Option 6, 1x2

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

Option 7, 1x2

Input→Output: SM to SM, Polarization Sensitive
Input→Tap: SM to SM, Polarization Sensitive

780-1080nm High Power Tap Isolator Hybrid (TGG Based)

Ordering Information

HPMTIS-①①①①-②③④④-⑤⑤⑤-⑥⑥⑥-⑦⑧-⑨-⑩⑩⑩-⑪⑪⑫⑫ (PM Fiber Type)

HPITIS-①①①①-②③④④-⑤⑤⑤-⑥⑥⑥-⑦⑧-⑨-⑩⑩⑩-⑪⑪⑫⑫ (SM Fiber Type)

①①①①	- Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, 850=850nm, SSS=Specified
②	- Working Axis:	1=Option 1, 2=Option 2, 3=Option 3,, 6=Option 6, 7=Option 7
③	- Stage:	S=Single-core
④④	- Tap Ratio:	01=1%, 02=2%, ..., 50=50%
⑤⑤⑤	- Fiber Type (In & Out):	003=PM980, 005=PM850, 067=PM780-HP, SSS=Specified
⑥⑥⑥	- Fiber Type (Tap):	003=PM980, 004=HI1060, 005=PM850, 007=780-HP, 067=PM780-HP, SSS=Specified
⑦	- Package Dimensions:	0=64x28x26mm, S=Specified
⑧	- Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑨	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑩⑩⑩	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑪⑪	- Average Power:	00=300mW, 01=1W, 02=2W, 05=5W, 10=10W, 20=20W, SS=Specified
⑫⑫	- Peak Power:	00=Continuous Wave, 01=1KW, 02=2kW, 10=10kW, 20=20kW, SS=Specified

For example: Product model [HPMTIS-1064-1S01-003-003-00-0.75-NNN-0510](#) on behalf of:

High Power PM Tap Isolator, 1064nm, Option 1 (2x1, Input to Output: Fast axis blocked; Input to Tap: Both axis working), Single-core stage, 1/99, PM980 fiber for all ports, 64x28x26mm, bare, 0.75m, no connector, 5W average power, 10kW peak power.

High Power Isolator & WDM Hybrid (TGG Based)

Features

Low Insertion Loss
High Return Loss
High Stability & Reliability

Applications

Fiber Laser
Testing Instrument
Medical Equipment

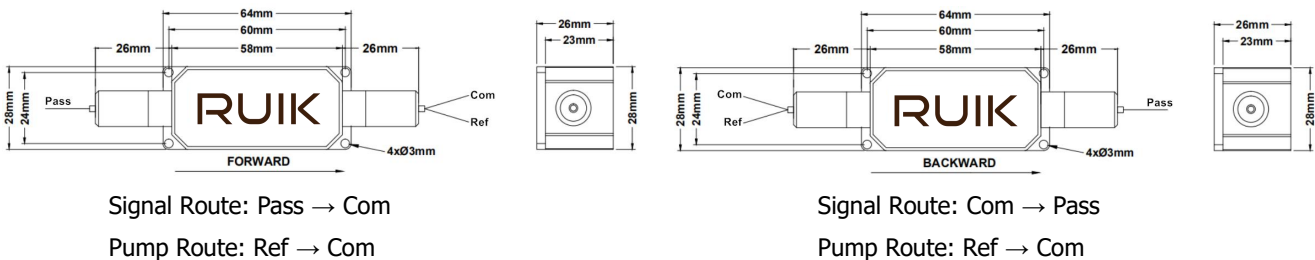
Specifications

Parameters	Unit	Values
Signal Channel	Wavelength Range	nm
	Max. Insertion Loss at 23°C	dB
	Min. Signal Reversed Isolation, $\lambda_c \pm 10\text{nm}$ at 23°C	dB
	Min. Isolation (Com to Pass @Ref band wavelength)	dB
Reflection Channel	Wavelength Range	nm
	Max. Insertion Loss at 23°C	dB
	Min. Isolation (Com to Ref @Pass band wavelength)	dB
Min. Extinction Ratio at 23°C (PM Fiber Type, Signal/Pump Route)		dB
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)		dB
Min. Return Loss at 23°C		dB
Max. Optical Power (CW)		W
Max. Peak Power for ns Pulse		kW
Max. Tensile Load		N
Package Dimensions		mm
Operating Temperature		°C
Storage Temperature		°C

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMIWDM-①①①①-②③④-⑤⑤⑤-⑥⑥⑥-⑦⑧-⑨-⑩⑩⑩-⑪⑪⑫⑫ (PM Fiber Type)

HPIIWDM-①①①①-②③④-⑤⑤⑤-⑥⑥⑥-⑦⑧-⑨-⑩⑩⑩-⑪⑪⑫⑫ (SM Fiber Type)

①①①①	Wavelength:	0698=T1064nm / R980nm, 0398=T1030nm/R980nm, SSSS=Specified
②	Stage:	S=Single-core
③	Pump Type:	F=Forward Pump, B=Backward Pump
④	Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
⑤⑤⑤	Fiber Type (Com & Pass):	003=PM980, 004=Hi1060, 018=PLMA-GDF-10/125-M, SSS=Specified
⑥⑥⑥	Fiber Type (Ref):	003=PM980, 004=Hi1060, SSS=Specified
⑦	Package Dimensions:	0=64x28x26mm
⑧	Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑨	Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑩⑩⑩	Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑪⑪	Average Power:	00=300mW, 01=1W, 02=2W, 05=5W, 10=10W, 20=20W, SS=Specified
⑫⑫	Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

980-1080nm Optical Isolator & Bandpass Filter (TGG Based)

Features

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

Applications

Fiber Laser
Test Instrument
Compact Fiber Optical System

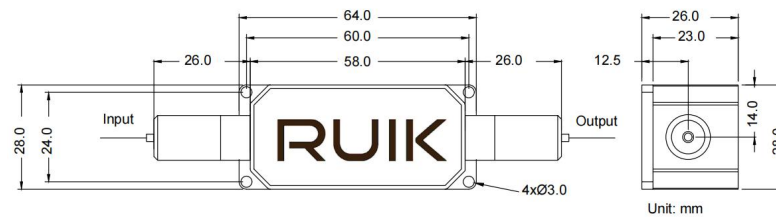
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030, 980
Operating Wavelength Range	nm	±5
Min. Pass Bandwidth (@-0.5dB)	nm	2, 5, 8, 15 or Specified
Max. Stop Bandwidth (@-25dB)	nm	As Specified
Max. Insertion Loss of Pass band at 23°C	dB	1.2
Min. Isolation, $\lambda_c \pm 10\text{nm}$ at 23°C	dB	25
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return loss at 23°C	dB	50
Max. Power Handling (CW)	W	0.3, 1, 2, 5, 10, 20 or Specified
Max. Peak Power for ns Pulse	kW	10 or Specified
Max. Tensile Load	N	5
Operating Temperature	°C	0 ~ +70
Storage Temperature	°C	-40 ~ +85

*With connectors, the handing power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Ordering Information

HPMIBPF-①①①①-②②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (PM Fiber Type)

HPIIBPF-①①①①-②②③-④④④-⑤⑥-⑦-⑧⑧-⑨⑨⑩⑩ (SM Fiber Type)

①①①① - Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, SSSS=Specified
②② - Pass Bandwidth @-0.5dB:	02=2nm, 05=5nm, 10=10nm, 15=15nm, SS=Specified
③ - Working Axis:	B=Both axis working, F=Fast axis blocked, N=Non-PM
④④④ - Fiber Type:	003=PM980, 004=HI1060, 014=PM1060L, SSS=Specified
⑤ - Package Dimensions:	0=64x28x26mm, S=Specified
⑥ - Pigtail Type:	0=bare fiber, 1=900μm loose tube
⑦ - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑧⑧ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑨⑨ - Average Power:	00=300mW, 01=1W, 02=2W, 05=5W, 10=10W, 20=20W, SS=Specified
⑩⑩ - Peak Power:	00=Continuous Wave, 01=1kW, 02=2kW, 10=10kW, SS=Specified

980-1080nm Isolator & Tap & Bandpass Filter (TGG Based)

Features

Low Insertion Loss
High Return Loss
High Extinction Ratio
High Isolation

Applications

Fiber Laser
Compact Fiber Optical System
Research

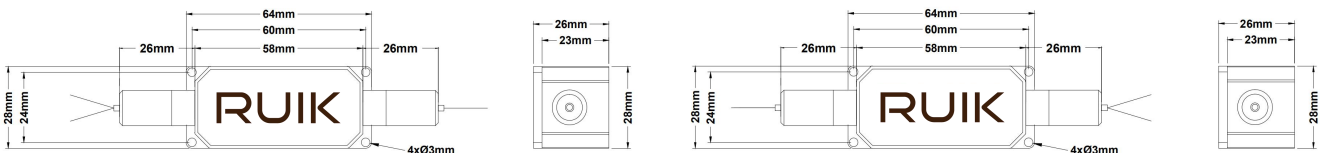
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064, 1030
Operating Wavelength Range	nm	±5
Min. Pass Bandwidth (@-0.5dB)	nm	2, 5, 8, 15 or Specified
Max. Stop Bandwidth (@-25dB)	nm	As Specified
Max. Excess Loss, λ_c at 23°C (Input to Output)	dB	1.3
Min. Isolation, $\lambda_c \pm 10\text{nm}$ at 23°C (Output to Input)	dB	25
Tap Ratio	%	1±0.2%, 2±0.4%, 5±1%, 10±2%
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return Loss at 23°C	dB	50
Max. Optical Power (CW)	W	0.3, 1, 2, 5, ..., 20 or Specified
Max. Tensile Load	N	5
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Options for Working Axis

Option 1, 2x1

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

Option 2, 2x1

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

Option 3, 2x1

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

Option 4, 2x1

Input→Output: SM to SM, Polarization Insensitive
Input→Tap: SM to SM, Polarization Insensitive

Option 5, 1x2

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

Option 6, 1x2

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

Option 7, 1x2

Input→Output: SM to SM, Polarization Sensitive
Input→Tap: SM to SM, Polarization Sensitive

980-1080nm Isolator & Tap & Bandpass Filter (TGG Based)

Ordering Information

HPMTIBPF-①①①①-②③④④-⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧⑨-⑩-⑪⑪⑪-⑫⑫⑬⑬ (PM Fiber Type)

HPITIBPF-①①①①-②③④④-⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧⑨-⑩-⑪⑪⑪-⑫⑫⑬⑬ (SM Fiber Type)

①①①①	- Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm, SSS=Specified
②	- Working Axis:	1=Option 1, 2=Option 2, 3=Option 3,, 6=Option 6, 7=Option 7
③	- Stage:	S=Single-core
④④	- Pass Bandwidth @-0.5dB:	02=2nm, 05=5nm, 08=8nm, SS=Specified
⑤⑤	- Tap Ratio:	01=1%, 02=2%, ..., 50=50%
⑥⑥⑥	- Fiber Type for In & Out:	003=PM980, 004=HI1060, 018=PLMA-GDF-10/125-M, SSS=Specified
⑦⑦⑦	- Fiber Type for Tap:	003=PM980, 004=HI1060, 018=PLMA-GDF-10/125-M, SSS=Specified
⑧	- Package Dimensions:	0=64x28x26mm
⑨	- Pigtail Type:	0=bare fiber, 1=900um loose tube
⑩	- Fiber Length:	0.75=0.75m, 1.0=1m, 1.5=1.5m, S=Specified
⑪⑪⑪	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑫⑫	- Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑬⑬	- Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW, SS=Specified

For example: Product model [HPMTIBPF-1064-1S05-01-003-003-00-0.8-NNN-1010](#) on behalf of:

High Power PM Tap & Isolator & BPF, 1064nm, option 1 (2x1, input to output: Fast axis blocked, input to tap: Both axis working), Pass bandwidth @-0.5dB: 5nm, 1% tap ratio, PM980 fiber for all ports, 64x28x26mm, bare, 0.8m, no connector, 10W average power, 10kW peak power.

High Power Isolator & Tap & WDM Hybrid (TGG Based)

Features

Low Insertion Loss
High Return Loss
High Extinction Ratio
High Isolation

Applications

Fiber Laser
Research
Compact Fiber Optical System

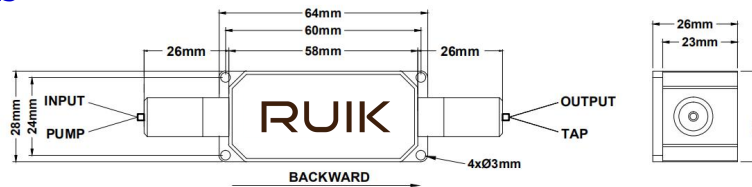
Specifications

Parameters	Unit	Values
Signal Wavelength	nm	1064, 1030
Signal Wavelength Range	nm	1020~1080
Max. Excess Loss, λ_c at 23°C (Input to Output)	dB	1.2
Min. Signal Isolation, $\lambda_c \pm 10$ at 23°C (Output to Input)	dB	25
Min. Isolation at 23°C	Signal Channel	dB
	Pump Channel	dB
Tap Ratio	%	1~50
Pump Wavelength Range	nm	960~990 or Specified
Max. Insertion Loss (Pump Channel)	dB	0.7
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return Loss at 23°C	dB	50
Max. Optical Power (CW)	W	0.3, 1, 2, 5, ..., 20 or Specified
Max. Tensile Load	N	5
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the Max. handling power is 1W only, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.

Package Dimensions



Option 1, Backward pump

Input→Tap: Fast axis blocked
Input→Output: Fast axis blocked

Option 2, Backward pump

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

Ordering Information

HPMTIWDM-①①①①-②③④④-⑤⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧⑨-⑩⑪⑪⑪⑪-⑫⑬⑬⑬ (PM Fiber Type)

HPITIWDM-①①①①-②③④④-⑤⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧⑨-⑩⑪⑪⑪⑪-⑫⑬⑬⑬ (SM Fiber Type)

①①①①	- Wavelength:	0698=T1064nm/R980nm, 0398=T1030nm/R980nm
②	- Working Axis:	1=Option 1, 2=Option 2
③	- Stage:	S=Single-core
④④	- Tap Ratio:	01=1%, 02=2%,....., 50=50%
⑤⑤⑤	- Fiber Type for In & Out:	003=PM980, 014=PM1060L, 018=PLMA-GDF-10/125-M, SSS=Specified
⑥⑥⑥	- Fiber Type for Pump:	003=PM980, 004=HI1060, SSS=Specified
⑦⑦⑦	- Fiber Type for Tap:	003=PM980, 004=HI1060, 018=PLMA-GDF-10/125-M, SSS=Specified
⑧	- Package Dimensions:	0=64x28x26mm
⑨	- Pigtail Type:	0=bare fiber, 1=900um loose tube
⑩	- Fiber Length:	0.75=0.75m, 1.0=1m, S=Specified
⑪⑪⑪⑪	- Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑫⑫	- Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑬⑬	- Peak Power:	00=Continuous Wave, 01=1KW, 02=2KW, 10=10kW, 20=20kW

High Power Isolator & Tap & WDM & Bandpass Filter Hybrid

Features

Low Insertion Loss
 High Return Loss
 High Extinction Ratio
 High Isolation

Applications

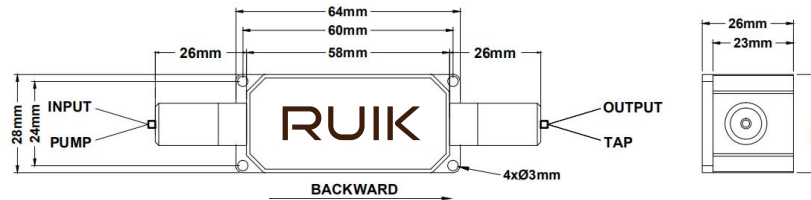
Fiber Laser
 Research
 Compact Fiber Optical System

Specifications

Parameters	Unit	Values
Signal Wavelength	nm	1064, 1030
Signal Wavelength Range	nm	1020~1080
Min. Pass Bandwidth (@-0.5dB)	nm	2, 5, 8 or Specified
Max. Excess Loss, λ_c at 23°C (Input to Output)	dB	1.5
Min. Signal Isolation, $\lambda_c \pm 10$ at 23°C (Output to Input)	dB	25
Min. Isolation at 23°C	Signal Channel	30
	Pump Channel	15
Tap Ratio	%	1~50
Pump Wavelength Range	nm	980±10 or Specified
Max. Insertion Loss (Pump Channel)	dB	0.7
Min. Extinction Ratio at 23°C (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23°C (SM Fiber Type)	dB	0.15
Min. Return Loss at 23°C	dB	50
Max. Optical Power (CW)	W	0.3, 1, 2, 5, ..., 20 or Specified
Max. Tensile Load	N	5
Operating Temperature	°C	+10~+50
Storage Temperature	°C	0~+60

*With connectors, the Max. handling power will be only 1W, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

Package Dimensions



Option 1, Backward pump

Input→Tap: Fast axis blocked
 Input→Output: Fast axis blocked

Option 2, Backward pump

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

Ordering Information

HPMTIBW-①①①①-②③④④-⑤⑤⑤⑤-⑥⑥⑥⑥-⑦⑦⑦⑦-⑧⑧⑧⑧-⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕㉖㉗㉘㉙㉚㉛㉜㉝㉞㉟㊱㊲㊳㊴㊵㊶㊷㊸㊹㊺㊻㊼㊽㊾㊿

①①①① - Wavelength:	0698=T1064nm/R980nm, 0398=T1030nm/R980nm, SSSS=Specified
② - Working Axis:	1=Option 1, 2=Option 2
③ - Stage:	S=Single-core
④④ - Pass Bandwidth @-0.5dB:	02=2nm, 05=5nm, 08=08nm, SS=Specified
⑤⑤ - Tap Ratio:	01=1%, 02=2%, ..., 50=50%
⑥⑥⑥ - Fiber Type for In & Out:	003=PM980, 014=PM1060L, 018=PLMA-GDF-10/125-M, SSS=Specified
⑦⑦⑦ - Fiber Type for Pump:	003=PM980, 004=HI1060, SSS=Specified
⑧⑧⑧ - Fiber Type for Tap:	003=PM980, 004=HI1060, SSS=Specified
⑨ - Package Dimensions:	0=64x28x26mm
⑩ - Pigtail Type:	0=bare fiber, 1=900um loose tube
⑪ - Fiber Length:	0.75=0.75m, 1.0=1m, 1.5=1.5m, S=Specified
⑫⑫⑫ - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specified
⑬⑬ - Average Power:	00=300mW, 01=1W, 05=5W, 10=10W, 20=20W, SS=Specified
⑭⑭ - Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW

Code	Fiber Type	Code	Fiber Type
001	PM1550 (SM15-PS-U25D)	055	Liekki Passive-6/125DC
002	PM1310 (SM13-PS-U25D)	056	CorActive DCF-UN-20/125-100
003	PM980 (SM98-PS-U25D)	057	Liekki Passive-10/125-PM
004	Corning HI1060	059	Liekki Passive-6/125
005	PM850	060	Liekki Passive-6/125DC-PM
006	Corning HI780	061	CorActive DCF-UN-10/125-080
007	Nufern 780HP	064	Nufern 1060-XP
008	SMF-28E (G652D-250)	065	Liekki Passive-20/125DC-PM
009	Nufern MM-S105/125-22A, NA 0.22	067	Nufern PM780-HP
013	Nufern MM-S200/220-22A, NA 0.22	070	Liekki Passive-12/250DC
014	Nufern PM1060L	072	Nufern FUD 3561
015	Nufern PM1060L-FA	074	Liekki passive-20/125DC
017	Nufern LMA-GSF-10/125-M	077	Nufern LMA-GDF-25/250-09M
018	Nufern PLMA-GDF-10/125-M	079	Nufern PM1550-XP
019	Nufern LMA-GDF-10/125-M	080	Nufern LMA-GDF-20/125-M
020	Nufern PLMA-GDF-20/130-M	082	Liekki Passive-20/125-PM
021	Nufern LMA-GDF-20/130-M	086	Liekki Passive-30/250DC-PM
022	Nufern PM-GDF-10/130-2000-M	089	Nufern LMA-GDF-25/300
023	Nufern LMA-GDF-10/130-M	090	Nufern SM-1950
024	Nufern PLMA-GDF-25/250-M	093	Corning MM-62.5/125
025	Nufern LMA-GDF-25/250-M	094	Corning MM-50/125 (OM4)
026	Nufern PLMA-GDF-15/130	096	Nufern PM630-HP
027	Nufern LMA-GDF-15/130-M	097	Nufern 460HP
028	Nufern PM-GDF-12/130-M	098	Liekki Passive-12/125-PM
029	Nufern MM-GDF-12/130-M	099	Liekki Passive-20/125
030	Nufern PLMA-GDF-30/250-M	100	Liekki Passive-25/250
031	Nufern LMA-GDF-30/250-M	103	Nufern PM-GDF-6/125-M
032	Nufern PM980-XP	105	Nufern PM460-HP
033	Nufern PM980B-XP	106	Nufern 630HP
034	Nufern PLMA-GDF-25/300-M	107	CorActive DCF-UN-8/125-14
035	Nufern PLMA-GDF-20/400-M	109	Nufern PM-GDF-5/130
036	Liekki Passive-10/125DC-PM	112	Nufern PM1310-XP
037	Liekki Passive-10/125DC	114	CorActive DCF-UN-8/125-14-PM
038	Liekki Passive-25/250DC	115	Nufern SM-GDF-10/125 (FUD-3583)
040	Nufern SM-GDF-6/125	120	Liekki Passive-30/250-PM
044	Nufern LMA-GDF-20/400-M	121	Nufern PM-S405-XP
045	Nufern PM1950	124	Liekki Passive-30/250
049	Nufern SM-GDF-1550	125	Nufern S405-XP
050	Nufern SM-GDF-10/130-15M	130	Liekki Passive-25/250-PM
051	Nufern PM-GDF-1550	132	Liekki Passive-10/125
052	Nufern SM-GSF-10/125	139	Liekki Passive-25/250DC-PM
053	Liekki Passive-12/125DC-PM	141	Nufern SM-GDF-5/130
054	Liekki Passive-12/125DC	149	Nufern PLMA-GDF-14/125-UF

*Please feel free to contact us if you need more fiber selections;

ITU 波长表

[C/L:ON ITU Grid, H/Q:50 GHz 0 λ set]

Channel	(GHz)	λ (nm)	Channel	(GHz)	λ (nm)	Channel	(GHz)	λ (nm)	Channel	(GHz)	λ (nm)
L48	184800	1622.25	Q76	187650	1597.62	C05	190500	1573.71	H33	193350	1550.52
Q48	184850	1621.81	L77	187700	1597.19	H05	190550	1573.30	C34	193400	1550.12
L49	184900	1621.38	Q77	187750	1596.76	C06	190600	1572.89	H34	193450	1549.72
Q49	184950	1620.94	L78	187800	1596.34	H06	190650	1572.48	C35	193500	1549.32
L50	185000	1620.50	Q78	187850	1595.91	C07	190700	1572.06	H35	193550	1548.91
Q50	185050	1620.06	L79	187900	1595.49	H07	190750	1571.65	C36	193600	1548.51
L51	185100	1619.62	Q79	187950	1595.06	C08	190800	1571.24	H36	193650	1548.11
Q51	185150	1619.19	L80	188000	1594.64	H08	190850	1570.83	C37	193700	1547.72
L52	185200	1618.75	Q80	188050	1594.22	C09	190900	1570.42	H37	193750	1547.32
Q52	185250	1618.31	L81	188100	1593.79	H09	190950	1570.01	C38	193800	1546.92
L53	185300	1617.88	Q81	188150	1593.37	C10	191000	1569.59	H38	193850	1546.52
Q53	185350	1617.44	L82	188200	1592.95	H10	191050	1569.18	C39	193900	1546.12
L54	185400	1617.00	Q82	188250	1592.52	C11	191100	1568.77	H39	193950	1545.72
Q54	185450	1616.57	L83	188300	1592.10	H11	191150	1568.36	C40	194000	1545.32
L55	185500	1616.13	Q83	188350	1591.68	C12	191200	1567.95	H40	194050	1544.92
Q55	185550	1615.70	L84	188400	1591.26	H12	191250	1567.54	C41	194100	1544.53
L56	185600	1615.26	Q84	188450	1590.83	C13	191300	1567.13	H41	194150	1544.13
Q56	185650	1614.83	L85	188500	1590.41	H13	191350	1566.72	C42	194200	1543.73
L57	185700	1614.39	Q85	188550	1589.99	C14	191400	1566.31	H42	194250	1543.33
Q57	185750	1613.96	L86	188600	1589.57	H14	191450	1565.90	C43	194300	1542.94
L58	185800	1613.52	Q86	188650	1589.15	C15	191500	1565.50	H43	194350	1542.54
Q58	185850	1613.09	L87	188700	1588.73	H15	191550	1565.09	C44	194400	1542.14
L59	185900	1612.65	Q87	188750	1588.30	C16	191600	1564.68	H44	194450	1541.75
Q59	185950	1612.22	L88	188800	1587.88	H16	191650	1564.27	C45	194500	1541.35
L60	186000	1611.79	Q88	188850	1587.46	C17	191700	1563.86	H45	194550	1540.95
Q60	186050	1611.35	L89	188900	1587.04	H17	191750	1563.45	C46	194600	1540.56
L61	186100	1610.92	Q89	188950	1586.62	C18	191800	1563.05	H46	194650	1540.16
Q61	186150	1610.49	L90	189000	1586.20	H18	191850	1562.64	C47	194700	1539.77
L62	186200	1610.06	Q90	189050	1585.78	C19	191900	1562.23	H47	194750	1539.37
Q62	186250	1609.62	L91	189100	1585.36	H19	191950	1561.83	C48	194800	1538.98
L63	186300	1609.19	Q91	189150	1584.95	C20	192000	1561.42	H48	194850	1538.58
Q63	186350	1608.76	L92	189200	1584.53	H20	192050	1561.01	C49	194900	1538.19
L64	186400	1608.33	Q92	189250	1584.11	C21	192100	1560.61	H49	194950	1537.79
Q64	186450	1607.90	L93	189300	1583.69	H21	192150	1560.20	C50	195000	1537.40
L65	186500	1607.47	Q93	189350	1583.27	C22	192200	1559.79	H50	195050	1537.00
Q65	186550	1607.04	L94	189400	1582.85	H22	192250	1559.39	C51	195100	1536.61
L66	186600	1606.60	Q94	189450	1582.44	C23	192300	1558.98	H51	195150	1536.22
Q66	186650	1606.17	L95	189500	1582.02	H23	192350	1558.58	C52	195200	1535.82
L67	186700	1605.74	Q95	189550	1581.60	C24	192400	1558.17	H52	195250	1535.43
Q67	186750	1605.31	L96	189600	1581.18	H24	192450	1557.77	C53	195300	1535.04
L68	186800	1604.88	Q96	189650	1580.77	C25	192500	1557.36	H53	195350	1534.64
Q68	186850	1604.46	L97	189700	1580.35	H25	192550	1556.96	C54	195400	1534.25
L69	186900	1604.03	Q97	189750	1579.93	C26	192600	1556.55	H54	195450	1533.86
Q69	186950	1603.60	L98	189800	1579.52	H26	192650	1556.15	C55	195500	1533.47
L70	187000	1603.17	Q98	189850	1579.10	C27	192700	1555.75	H55	195550	1533.07
Q70	187050	1602.74	L99	189900	1578.69	H27	192750	1555.34	C56	195600	1532.68
L71	187100	1602.31	Q99	189950	1578.27	C28	192800	1554.94	H56	195650	1532.29
Q71	187150	1601.88	L00	190000	1577.86	H28	192850	1554.54	C57	195700	1531.90
L72	187200	1601.46	Q00	190050	1577.44	C29	192900	1554.13	H57	195750	1531.51
Q72	187250	1601.03	C01	190100	1577.03	H29	192950	1553.73	C58	195800	1531.12
L73	187300	1600.60	H01	190150	1576.61	C30	193000	1553.33	H58	195850	1530.72
Q73	187350	1600.17	C02	190200	1576.20	H30	193050	1552.93	C59	195900	1530.33
L74	187400	1599.75	H02	190250	1575.78	C31	193100	1552.52	H59	195950	1529.94
Q74	187450	1599.32	C03	190300	1575.37	H31	193150	1552.12	C60	196000	1529.55
L75	187500	1598.89	H03	190350	1574.95	C32	193200	1551.72	H60	196050	1529.16
Q75	187550	1598.47	C04	190400	1574.54	H32	193250	1551.32	C61	196100	1528.77
L76	187600	1598.04	H04	190450	1574.13	C33	193300	1550.92	H61	196150	1528.38