



SHENZHEN BOX OPTRONICS TECHNOLOGY CO., LTD.



Web: www.box-laser.com

Tel: 0755-21009302

Email: sales@boxoptronics.com

VAT number: 91440300MA5DLEM94Y

Address: B-606 Colorful Science and Technology Park,
GuanLe Road, Guanhu Street, Longhua District,
Shenzhen, 518110

Fiber Components / Laser Device / Instrument / Equipment Development Manufacturer



Product Manual

HIGH QUALITY OPTICAL COMPONENT SOLUTIONS FOR OPTICAL
FIBER COMMUNICATION, OPTICAL SENSOR IN BOX OPTRONICS.

深圳市博科斯光电科技有限公司
SHENZHEN BOX OPTRONICS TECHNOLOGY CO., LTD

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Company Profile

Shenzhen Box Optronics Technology Co., Ltd. is national high-tech enterprise providing optical fiber modules, laser devices and customized optical product solutions, mainly engaged in optical fiber communications, optical fiber sensing field. We have strong R & D, production and sales capabilities, as well as senior product R & D engineers.

Our company adopts international leading process technology, has advanced production and test equipment regarding the device coupling package and module design, also has advantages in cost control, as well as the perfect quality assurance system, guaranteeing to provide the customers with high performance, quality reliable optoelectronic products .

We are dedicated to provide customers with better quality products and faster responses, and to help our customers create greater value and grow with customers.

Mission: To assist customers, provide better optoelectronic solutions, optimize industry cost;

Vision: Technological innovation to achieve the leading brand of optoelectronic technology;

Value: Customer first, Service foremost, Credibility foundation, Win-win cooperation.

The main products of our company include:

1. Bandwidth light source, SLED light source; fiber amplifier module, ASE light source, benchtop laser light source;
2. High power diode laser, CWDM laser, SLED laser, narrow linewidth laser, pump laser, coaxial fiber device;
3. Polarization-maintaining fiber device, high power fiber device, fiber grating, wavelength division multiplexing device and so on.



Enterprise qualification



980nm Pump Laser Diode

1.Features:

- Kink-free operating power up to 600mW;
- 14PIN butterfly package with SM Hi1060 or PM fiber;
- Fiber Bragg grating stabilization, Wavelength selection available;
- Integrated thermoelectric cooler, thermistor, and monitor diode.



2.Applications:

- Erbium doped fiber amplifiers(EDFA)&Optical sensor;
- Very long distance cable television(CATV) trunks.

3.Ordering Information:

BFLD	-XXX	X	-XXX	XX	-XX	X
Name	Wavelength	FBG	Output power	Fiber type	Connector	
980nm Pump Laser	974: 974nm 976: 976nm	F: With	100: 100mW 400: 400mW ... 600: 600mW	SM : Single mode PM : Polarization maintaining	N: Null(default) FA: FC/APC SA: SC/APC Other	0: Bare fiber 1: Loose tube

CWDM DFB Butterfly Laser Diode

1.Features:

- 10-100mW High output power;
- Multiquantum well (MQW) distributed-feedback (DFB) laser;
- Industry-standard 14PIN butterfly package;
- Built-in TEC and optical isolator.



2.Applications:

- LAN, WAN and metro networks;
- Fiber optic sensors;
- Laser sources&CATV systems.

3.Ordering Information:

BFLD	-XXXX	-XX	XX	-XX
Name	Wavelength	Output power	Fiber type	Connector
DFB Butterfly Laser	1310: 1310nm 1550: 1550nm CWDM: 1270-1650nm DWDM: 1526~1563nm	10: 10mW 20: 20mW 40: 40mW 1H: 100mW	SM : Single mode PM : Polarization maintaining	FA: FC/APC SA: SC/APC Other

Narrow Linewidth DFB Butterfly Laser

1.Features:

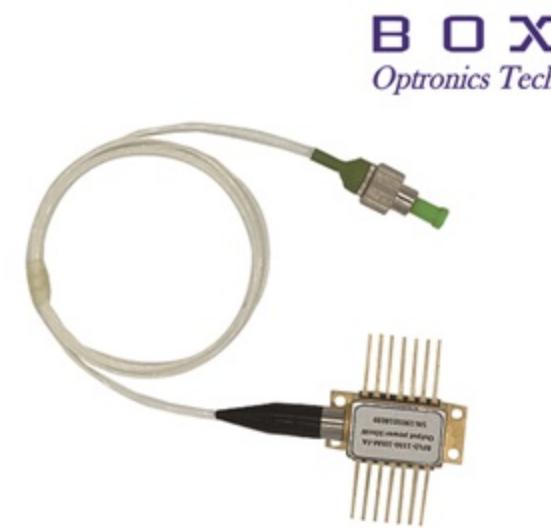
- Industry-standard, 14-pin butterfly package;
- Narrow linewidth: 200KHz, 600KHz(Optional);
- Low RIN and phase noise;
- High output optical power;
- High stability.

2.Applications:

- Optical fiber communication;
- Coherent detection;
- Microwave photonics.

3.Ordering Information:

BNLD	-XXXX	-XX	X	-XX	-XX
Name	Wavelength	Output power	Linewidth	Fiber type	Connector
Narrow Linewidth Laser	1550: 1550nm	40: 40mW	1:100KHz 2: 200KHz 6: 600KHz	SM : Single mode PM : Polarization maintaining	FA: FC/APC SA: SC/APC Other



SLED Superluminescence Diode Laser

1.Features:

- Wavelength 850nm, 1310nm, 1490nm, 1550nm, 1610nm;
- Low Spectral ripple, Broad bandwidth;
- Industry-standard 8PIN, 14PIN butterfly packages;
- Built-in optical isolator&Low polarization sensitivity.

2.Applications:

- Fiber optic gyroscopes&sensors&communications;
- Biomedical imaging device&Optical coherence topography.

3.Ordering Information:

BFSLD	-XX	-XX	-XX	-XX
Name	Wavelength	Output power	Fiber type	Connector
SLED Diode	850: 850nm 1290: 1290nm 1310: 1310nm 1450: 1450nm 1550: 1550nm 1610: 1610nm	01: 1mW 05: 5mW 10: 10mW 15: 15mW	SM: Single mode PM: Polarization maintaining	FA: FC/APC SA: SC/APC Other



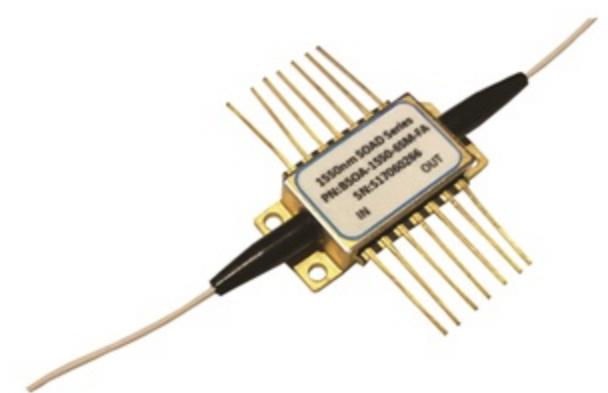
SOA Semiconductor Optical Amplifier Devices

1.Features:

- Wide optical bandwidth;
- High saturation output power;
- Low polarization sensitivity&gain ripple and NF.;
- Built-in TEC and optical isolator.

2.Applications:

- Loss compensation for fiberoptic connection and switch;
- WDM fiberoptic networks;
- 100G fiberoptic data center.



3.Ordering Information:

BSOA	-XXXX	-XX	-XX	-XX
Name	Wavelength	Output power	Fiber type	Connector
SOA Amplifier	1310: 1310nm 1550: 1550nm	08: 8dBm 10: 10dBm	SM: Single mode PM: Polarization maintaining	FA: FC/APC SA: SC/APC Other

Butterfly Laser Drive Module

1.Features:

- LD output voltage adaptive load 3V;
- Output current: 100mA, 500mA, 1000mA, 1500mA;
- There are three working modes: continuous mode control, internal pulse control, and external pulse control;
- Laser with TEC temperature control, TEC maximum output current 3A;
- The internal pulse mode frequency is adjustable from 100Hz-5MHz;
- External maximum control frequency 2MHz;
- Internal and external pulse mode pulse width 5ns-200us adjustable;
- Supports standard Modbus protocol control and USB control command line control;
- Support computer upper computer control;
- Quick replacement of laser fixture with laser;
- High stability, high anti-interference, and low noise;
- LCD true color LCD touch screen, anti industrial interference;
- 12VDC power input voltage;
- Size: 130 * 170 * 76mm.



2.Applications:

- Semiconductor lasers, seed source drives;
- Control of nanosecond pulse laser;
- Temperature control sources for experiments and research.

High Power Multimode Fiber Coupled Diode Laser

1. Features:

- High coupling efficiency;
- High brightness;
- Reliable Au/Sn bonding;
- RoHS Compliance.

2. Applications:

- Fiber laser pumping;
- Medical/Life and health sciences.

3. Ordering Information:

BLD	-XXX	-XX	-XX	-XX
Name	Wavelength	Output power	Fiber type	Connector
Diode Laser	808: 808nm 915: 915nm 940: 940nm 976: 976nm	10: 10W 30: 30W 100: 100W 420: 420W	12: 0.12NA 15: 0.15NA 22: 0.22NA(default)	N0: Null(default) FU: FC/UPC SMA: SMA905 Other

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Coaxial FP/DFB Laser Diode

1. Features:

- MQW FP/DFB LD;
- Low threshold current and High output power;
- Built-in InGaAsP monitor PD;
- Wide temperature range operation ($T_c = -45^\circ\text{C}$ to $+85^\circ\text{C}$).

2. Applications:

- CATV reverse transmission;
- Light source and Analog optical transmission.

3. Ordering Information:

BLD-	-X	-XX	-XX	-XX	-X	-XX
Name	Laser type	Wavelength	Output power	PIN-OUT	Isolator	Connector
Coaxial Laser Diode	F: FP D: DFB C: CWDM	31: 1310nm 55: 1550nm CWDM 625: 1625nm 65: 1650nm	02: 2mW 04: 4mW	A: Type A B: Type B	I: Single D: Dual W: Without	FA: FC/APC SA: SC/APC ST: ST/UPC Other

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CWDM Coxial Laser Diode with TEC

1. Features:

- CWDM wavelength cooled DFB-LD as Transmitter;
- Integrated optical isolator;
- Low noise, Low distortion;
- Low threshold current.

2. Applications:

- CDMA/GSM transmission system;
- Access network, FTTC, FTTH, PON;
- Other analog transmission system.

3. Ordering Information:

BLD	-X	XX	XX	X	-X	-XX
Name	Laser	Emitter	Power	LD PIN	Isolator	Connector
Laser Diode	C:CWDM	1550:1550nm CWDM Wave.	02: 2mW	H: Type H	I: With	FA: FC/APC SA: SC/APC

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Coaxial APD Photodiode Module

1. Features:

- High responsivity, low return loss;
- Low dark current, Low capacitance;
- Planar incident structure;
- Laser welding, High reliability and Long operating.

2. Applications:

- Analog optical receiver;
- Test equipment.

3. Ordering Information:

BAPD	-XX	X	XX	X	-XX
Name	Active area	PD Type	Fiber length	PIN-OUT	Connector
Avalanche Photodiode	50: ϕ 50 2H: ϕ 200 5H: ϕ 500	P: Pigtailed type	05: 0.5m 10: 1.0m Other	A: Type A B: Type B C: Type C	FA: FC/APC SA: SC/APC Other

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Tunable Wavelength BOSA Module with TEC

1.Features:

- 1450/1510/1610nm cooled DFB-LD as transmitter;
- 1550nm InGaAs PIN-PD as receiver;
- Low noise, Low distortion Low threshold current;
- Integrated optical isolator.

2.Applications:

- CDMA/GSM transmission system;
- Access network, FTTC,FTTH, PON.

3.Ordering Information:

BBD	-X	XX	XX	X	-XX	-X	X	-XX
Name	Chip type	Transmitter wavelength	Output power	PIN-OUT	Receiver wavelength	PIN-OUT	Isolator	Connector
BOSA	D: DFB F: FP	45: 1450nm 47: 1470nm 61: 1610nm	02: 2mW 04: 4mW Other	H: Type H	31: 1310nm 55: 1550nm Others	A: Type A	I: With	FA: FC/APC SA: SC/APC Other



FP/DFB TO56 Laser Diode

1.Features:

- CWDM band wavelengths;
- Low threshold and low operating current;
- High efficiency and high output power;
- Wide operation temperature range;
- TO56 standard package.

2.Applications:

- 2.5/10Gbps fiber optic transmission;
- Optical communication transceivers;
- Storage area networks;
- Fiber optic sensors and measurement.

3.Ordering Information:

BLD	-XX	-XX	-XX	-XX	-XX
Name	Wavelength	Output power	TO type	PIN-OUT	Cap
Laser Diode	1310: 1310nm 1550: 1550nm Other	02: 2mW 05: 5mW 10: 10mW	TO56	A: A type B: B type	AL: Aspherical Lens BL: Ball-lens



Silicon/InGaAs TO46 Photodiode

1.Features:

- High responsivity and high reliability,
- Low capacitance and Low dark current,
- TO46 flat window hermetic package.

2.Applications:

- Optical power meter,
- Laser ranging and Optical sensor.

3.Ordering Information:

BPD	-X	-XX	-XXXX	-X	-XX
Name	PD type	Detect Area	TO type	PIN-OUT	Cap
Photodiode	I: InGaAs S: Silicon	50: 50um 5H: 500um 1S: 1000um 2S: 2000um 5S: 5000um	TO46 TO5 TO8	A: A type B: B type Customized	BL: Ball-lens FW: Flat window



980nm Pump Laser Module

1.Features:

- High output power;
- High reliability and stability;
- OEM module available.

2.Applications:

- Fiber laser;
- Fiber amplifier;
- Fiber sensor.

3.Ordering information:

BPL	-XXX	-XXXX	-X	-XX	-XX	XX
Name	Wavelength	Output power	Fiber type	Connector	Package	Pump Protector
980nm Pump Laser Module	974: 974nm 976: 976nm	2H: 200mW 6H: 600mW 7H: 750mW 1T: 1000mW 1T6: 1600mW	S: Hi1060 P: PM980	FA: FC/APC SA: SC/APC LA: LC/APC Other	M: Module B: Benchtop	P0: Without P1: 1064nm P5: 1550nm



CWDM /DWDM Laser Source

1.Features:

- High output power;
- Power and spectral stability
- Module or Benchtop package
- Color LCD status display

2.Applications:

- Fiber laser;
- Erbium-doped fiber amplifier;
- Nonlinear optics research

3.Ordering information:

BLD	-XXX	-XXXX	-X	-XX	-XX
Name	Wavelength	Output power	Fiber type	Connector	Package
Fiber Laser	1310: 1310nm 1550: 1550nm CWDM:1270-1650nm DWDM:1526-1563nm	10: 10mW 20: 20mW 40: 40mW 1H: 100mW Other	S: SMF-28e P: PM1550	FA: FC/APC SA: SC/APC LA: LC/APC Other	M: Module B: Benchtop



C/L-Band High-Power PM EDFA Amplifier

1.Features:

- High output power(10W);
- High gain factor;
- Full polarisation-maintaining light path.

2.Applications:

- Optical fiber communication;
- Optical fiber sensor;
- Fiber laser.

3.Ordering information:

EDFA	-XX	-X	-XX	XX	-X
Name	EDFA type	Wavelength	Output power	Fiber type	Dimension
Erbium-doped Fiber Amplifier	BA: Booster-Amp	C: C-band L: L-band	15: 15dBm 20: 20dBm 26: 26dBm Other	SM: SM fiber PM: PM fiber	M: Module B: Benchtop

C/L-Band High-Power PM EDFA Amplifier

1.Features:

- High output power(10W);
- High gain factor;
- Full polarisation-maintaining light path.

2.Applications:

- Optical fiber communication;
- Optical fiber sensor;
- Fiber laser.

3.Ordering Information:

EYDFA	-XX-XX	-X	-XX	XX	-X
Name	EDFA Type	Wavelength	Output power	Fiber type	Dimension
High power Erbium-doped Fiber Amplifier	HP-BA: High power Booster-Amp	C: C-band L: L-band	27: 27dBm 30: 30dBm 35: 35dBm 37: 37dBm 40: 40dBm	SM: SM fiber PM: PM fiber	M: Module B: Benchtop



C/C+L-band Raman Amplifier

1.Features:

- Wide wavelength range;
- High output power;
- Low noise figure.

2.Applications:

- Optical fiber communication;
- Optical fiber sensor;
- Fiber laser.

3.Ordering information:

BFRA	-XXXX	-XXX	-XX	-XX
Name	Signal Wavelength	Gain	Connector	Package
Raman Amplifier	1450: 1450nm 1550: 1550nm	3H: 200mW 5H: 400mW 1T: 700mW 1T4: 1400mW	FA: FC/APC SA: SC/APC LA: LC/APC Other	M: 150x125x30 B: Benchtop



3.Ordering Information:

BFRA	-XXXX	-XXX	-XX	-XX
Name	Signal Wavelength	Gain	Connector	Package
Raman Amplifier	1450: 1450nm 1550: 1550nm	3H: 200mW 5H: 400mW 1T: 700mW 1T4: 1400mW	FA: FC/APC SA: SC/APC LA: LC/APC Other	M: 150x125x30 B: Benchtop

C-Band Erbium-doped Fiber Pre-Amplifier

1. Features:
- Wide wavelength range;
 - High gain factor;
 - Low noise;
 - Input power: -35dB, -45dBm(Optional).

2. Applications:
- Optical fiber communication;
 - Optical fiber sensor;
 - Fiber laser.

3. Ordering information:

EDFA	-XX	-X	-XX	XX	-X
Name	EDFA Type	Wavelength	Small signal gain	Fiber type	Dimension
Erbium-doped Fiber Amplifier	PA: Pre-Amp	C: C-band	35: 35dB@-35dBm 45: 45dB@-45dBm	SM: SM fiber	M: Module B: Benchtop


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SLED Broadband Light Source

1. Features:
- High output power;
 - High stability;
 - Customized wavelength.

2. Applications:
- Optical fiber sensor;
 - Medical imaging;
 - Optical fiber measuring equipment.

3. Ordering information:



BFSL	-XXXX	-XX	XX	-XX	-X
Name	Wavelength	Output power	Fiber type	Connector	Package
SLED Module	840: 840nm 1310: 1310nm 1550: 1550nm 2565: 1250~1650nm	01: 1mW 03: 3mW 05: 5mW 10: 10mW	SM: SM Fiber PM: PM Fiber	FA: FC/APC SA: SC/APC Other	M: Module B: Benchtop

C band/C+L band ASE Light Source

1. Features:
- High output power;
 - High stability;
 - Flatness in spectrum;
 - Customized.

2. Applications:
- Fiber sensing;
 - Optical tomography;
 - DWDM Component Test.

3. Ordering information:

BASE	-XXXX	-X	-XX	-X
Name	Wavelength	Power	Connector	Package
ASE Light Source	1030: 1030nm 1060: 1060nm C: 1528-1563nm C+L: 1528-1603nm C++: 1524-1572nm 2000: 2000nm	10: 10mW 20: 20mW 1H: 100mW 4H: 400mW	FA: FC/APC SA: SC/APC Other	M: Module B: Benchtop


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515nm 532nm Picosecond Pulse Fiber Laser

1. Features:
- Green picosecond;
 - Power on self start;
 - High stability of full polarization maintaining.

2. Applications:
- Fluorescence lifetime microscopic imaging;
 - OPA pump laser;
 - Seed laser.

3. Ordering information:



PSPL	-XXXX	-XX	-XX	-XX	XX	-X
Name	Wavelength	Pulse width	Output power	Repetitive frequency	Fiber type	Dimension
Picosecond Pulse Laser	515: 515nm 532: 532nm	10: 10ps 20: 20ps 50: 50ps 1H: 100ps	10: 10mW 50: 50mW 2H: 200mW	15: 15MHz 50: 50MHz 1H: 100MHz	FS: Space light	M: Module B: Benchtop

780nm Femtosecond Pulse Fiber Laser

1.Features:

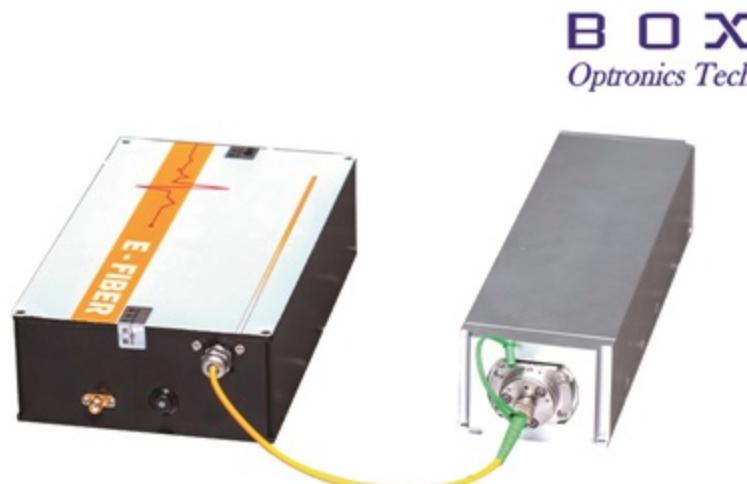
- Femtosecond pulse width;
- Self starting and maintenance free;
- High stability of full protection.

2.Applications:

- Multiphoton excitation imaging;
- Two photon absorption;
- Ultrafast laser phenomenon.

3.Ordering information:

FSPL	-XXX	-XX	-XX	-XX	-XX	XX
Name	Wavelength	Pulse width	Output power	Repetitive frequency	Output mode	Dimension
Femtosecond Pulse Laser	780: 780nm	50: 50fs 1H: 100fs 2H: 200fs 5H: 500fs	01: 1mW 10: 10mW 50: 50mW 1H: 100mW	80: 80MHz 1H: 100MHz	FS: Space light	M: Module B: Benchtop



1030nm/1064nm Picosecond Pulse Fiber Laser

1.Features:

- Ultrashort pulse;
- Power on self start;
- High stability of full polarization maintaining.

2.Applications:

- Fiber laser pumping;
- Supercontinuum generation;
- Seed laser pulse.

3.Ordering information:

PSPL	-XXXX	-XX	-XX	-XX	XX	-X
Name	Wavelength	Pulse width	Output power	Repetitive frequency	Fiber type	Dimension
Picosecond Pulse Laser	1030:1030nm 1060:1060nm	10: 10ps 20: 20ps 50: 50ps 1H: 100ps	10: 10mW 50: 50mW 2H: 200mW 2T: 2000mW	15: 15MHz 50: 50MHz 1H: 100MHz	PM: PM fiber FS: Space light	M: Module B: Benchtop



High Power Nano-second Pulse Fiber Laser

1.Features:

- All fiber structure;
- Pulse width, repetition frequency and power adjustable;
- Benchtop or module package.

2.Applications:

- High power laser seed source;
- Nonlinear optics;
- Optical fiber sensor.

3.Ordering information:



NSFL/HPNSFL	-XXXX	-XX	-XX	-XX	XX	-X
Name	Wavelength	Pulse width	Repetitive frequency	Output peak power	Fiber type	Dimension
Nano-second Pulse Fiber Laser	1064: 1064nm 1550: 1550nm	01: 1ns 05: 5ns 30: 30ns 1H: 100ns	01: 1KHz 1H: 100KHz 1T: 1000KHz 3T: 3000KHz	05: 5W 30: 30W 1T: 1KW 5T: 5KW 10T: 10KW	SM: SMF-28e	M: Module B: Benchtop

1560nm High Power Femtosecond Pulse Fiber Laser

1.Features:

- Pulse width 120fs;
- Average output power: 1W;
- Self start maintenance free;
- High stability.

2.Applications:

- optical frequency comb;
- Supercontinuum spectrum;
- Terahertz wave;
- Ultrafast laser phenomenon.

3.Ordering information:



FSPL	-XXXX	-XX	-XX	-XX	XX	-X
Name	Wavelength	Pulse width	Output power	Repetitive frequency	Output mode	Dimension
Femtosecond Pulse Laser	1560: 1560nm	120: 120fs	1T: 1000mW	80: 80MHz 1H: 100MHz	FS: Space light	B: Benchtop

High Power Isolator

1.Features:

- High return loss and Isolation.

2.Applications:

- Polarization maintaining fiber amplifier;
- Testing instrument and Fiber laser.

3.Ordering Information:

Part No.	Explain	Option
XXXX	Device type	HPMIS, HPIIS
XXXX	Center wavelength	840:840nm, 980: 980nm, 1064: 1064nm, 1550: 1550nm
XX	Handling power	01: 1W, 02: 2W, 05: 5W, 20: 20W
X	Axis alignment For PM	F: Slow axis working, Fast axis blocked; B: Both of axis working
X	Fiber type	1: Hi1060 Fiber; 2: PM Panda fiber; S: Specified
XXX	Pigtail type	250: 250μm Bare fiber; 900: 900μm Loose tube
X	Package dimension	A: 72x34x33mm, B: 55x28.5x28mm


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780-1550nm SM/PM Filter Coupler

1.Features:

- Low insertion loss;
- High return loss.

2.Applications:

- EDFA & Raman amplifier.


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3.Ordering Information:

Part No.	Explain	Option
XXXX	Device type	FC/PMFC
-XXXX	-Center wavelength:	850: 850nm, 1310: 1310nm, 1550: 1550nm, 2000: 2000nm
-X	-Port number:	1: 1x2, 2: 2x2
XX	Tap ratio:	01: 1%, 02: 2%, ..., 05: 5%, ..., 50: 50%
X	Axis alignment:	B: Both of axis working, F=Fast axis blocked
-XX	Fiber type for tap port:	01: PM1550, 03: PM980, 04: HI1060, 08: SMF-28E, SS: Specified
XX	Fiber type for port 1,3:	01: PM1550, 03: PM980, 04: HI1060, 08: SMF-28E, SS: Specified
-X	Pigtail type:	0: 250μm bare fiber, 1: 900μm loose tube
-XX	-Connector type:	N0: Null, FA: FC/APC, SA: SC/APC, other

SM/PM Circulator

1.Features:

- Low insertion loss;
- High return loss;
- High isolation;
- High extinction ratio;
- High reliability& stability.

2.Applications:

- EDFA & Raman amplifier;
- Fiber sensor;
- Fiber instrument.


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3.Ordering Information:

Part No.	Explain	Option
XXXX	Device type	CIR/PMCIR
-XXXX	-Center wavelength:	850: 850nm, 1310: 1310nm, 1550: 1550nm
-X	-Grade:	P: Perfect, A: A grade
X	Axis alignment:	S:Slow axis working, B: Both axis working, W: Without
X	Pigtail type:	0: 250μm bare fiber, 1: 900μm loose tube
-XX	-Connector type:	FU: FC/UPC, FA: FC/APC, SA: SC/APC, LA: LC/APC or other

Three-loop Fiber Polarization Controller

1.Features:

- High transfer efficiency;
- Stable and reliable.

3.Ordering Information:

2.Applications:

- High power fiber laser;
- Optical fiber communication test and sensing test;
- Automatic optical test system to build.


B O X
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Polarization Beam Splitter/Combiner

1.Features:

- Low insertion loss;
- High return loss.

3.Ordering Information:

2.Applications:

- Optical fiber current transformer;
- Fiber optic gyroscope.


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Part No.	Device type	Option
XXX	-Center Wavelength:	PBS, PBC
-XXXX	-Grade	840: 840nm, 1310: 1310nm, 1550: 1550nm
-X		P: P Grade, A: A Grade
X	Working axis	1: Non-PM fiber→PM fiber(PBS)/ PM fiber→Non PM fiber(BPC) 2: PM fiber→PM fibre, P3 slow axis 0° aim at P1 3: PM fiber→PM fibre, P3 slow axis 45° aim at P1
-X	-Fiber type	1: PM1550, 2: PM980, 3: Hi1060, 4: SMF-28e, other
X	Fiber type	1: PM1550, 2: PM980, 3: Hi1060, 4: SMF-28e, other
X	Package dimension:	0: Φ5.5x35mm, 2: Φ5.5x50mm, other
-XX	-Connector type:	FA: FC/APC, SA: SC/APC, Customized

Manual Variable Optical Attenuator

1.Features:

- High precision;
- Wide attenuation range.

3.Ordering Information:

2.Applications:

- Optical communication systems test;
- Optics laboratory.


B O X
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Part No.	Explain	Option
XXX	Device type	PMVOA, VOA
-XXXX	-Center wavelength:	840: 840nm, 1310: 1310nm, 1550: 1550nm
-XXX	-Fiber type:	001: PM1550, 002: PM1310, 003: PM980, 004: Hi1060, 008: SMF-28E
-X	-Pigtail type:	0: 250μm bare fiber, 1: 900μm loose tube
-XX	-Connector for In&Out:	FA: FC/APC, FU: FC/UPC, SA: SC/APC, SU: SC/UPC, other