



OZ Optics

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Global Leader in Fiber Optic Products **SINCE 1985**



12 & 16 Channels
MPO/MTP® Polarization
Maintaining Fiber Assemblies

Fiber Optic Products for
Gyroscope Applications

High Power Directional
Taps & Power Monitors

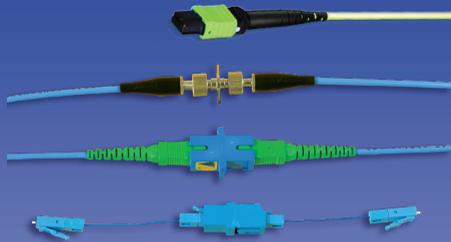
2D Fiber Arrays

Fiber Optic Components

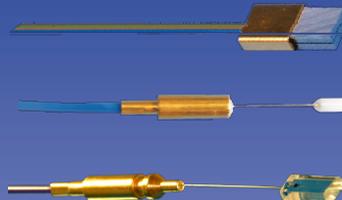
SHORT FORM CATALOG

Polarization Maintaining, High Power Fiber Optic Components, Laser & Laser Diode to Fiber Delivery Components, Fiber Optic Attenuators, Fiber Optic Components for Optoelectronic Packaging

Patent Numbers: USA 7058275, 7067993, 7095931, 7295731, 7431513, 7499151, 7599047, 8090233, 8107782, 9568307, 9696141, 10329196
EPO 10329196, 1527363 CANADA 2110651, 2494133, 2495223, 2496661, 2574702, 2590968, 2629446 CHINA ZL03818458.3



**Polarization Maintaining
Patchcords**



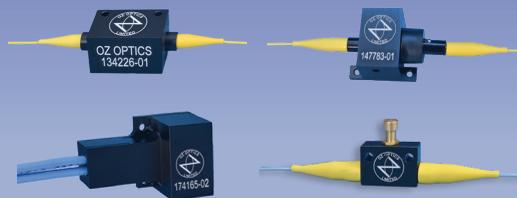
**Hermetically Sealable
Patchcords**



**Polarization Maintaining
Splitters/Combiners**



**High Power
Laser to Fiber Delivery Systems**



Attenuators



**High Power/Temperature
Patchcords & Connectors**



OZ Optics Ltd.
Headquarters, Canada
Tel: +1-800-361-5415
Tel: +1-613-831-0981
Fax: +1-613-836-5089
sales@ozoptics.com



OZ Optics USA
California Division
Tel: +1-510-770-1268
Tel: +1-510-770-1726
Fax: +1-510-770-1726
qxu@ozoptics.com



OZ Optics Türkiye
Tel: +90-232-252-3531
Fax: +90-232-252-3498
sales@ozoptics.com.tr

OZ Optics China Ltd.
Tel: +86-573-8222-3078
Fax: +86-573-8222-3012
sales@ozoptics.com.cn

Polarization Maintaining Fiber Optic Components

1



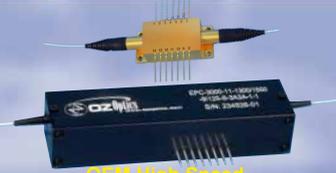
Polarization Maintaining Patchcords
Up to 30 dB Polarization Extinction Ratios
<0.3 dB IL, Up to -60 dB Backreflection
FC/APC, FC/PC, SC, LC, MU, ST, E2000

2



Polarization Measurement Systems
Includes Source, Meter and Master PM Patchcord
Measures up to 40 dB ER and Polarization Angle Simultaneously
FC, SC, LC, E2000 or Custom Connectors & Ferrules

3



OEM High Speed Polarization Controller-Scramblers
Continuous Control of Polarization
Negligible Insertion Losses and Return Losses
>30 kHz Response Speed at Resonance Frequency

4



Polarization Maintaining Fused Couplers
Low Cost, Miniature Size
50/50 to 99/1 Splitting Ratios
Ideal For Taps For Power Monitoring

5



Planar Light Circuit Splitter (PLCS)
Polarization and Singlemode Fiber Versions
Broad Bandwidth
1x2, 1x4, 1x8, 1x16, 1x32 Available

6



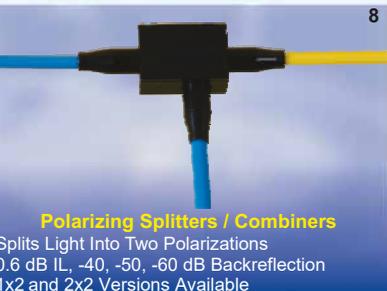
Fiber Optic Coils
For tactical, navigation, and FOG applications
Different winding patterns; Wet or Dry, Framed or Freestanding
High accuracy and low tension to minimize coil stress

7



Polarization Maintaining Splitters
Splits Polarized Light Into 2 PM or SM Fibers
0.6 dB IL, -40, -50, -60 dB Backreflection
1x2 and 2x2 Versions Available

8



Polarizing Splitters / Combiners
Splits Light Into Two Polarizations
0.6 dB IL, -40, -50, -60 dB Backreflection
1x2 and 2x2 Versions Available

9



Telcordia Qualified In-Line Optical Taps/Monitors
400 nm to 2000 nm Wavelength Versions
High Sensitivity, Large Dynamic Range

10



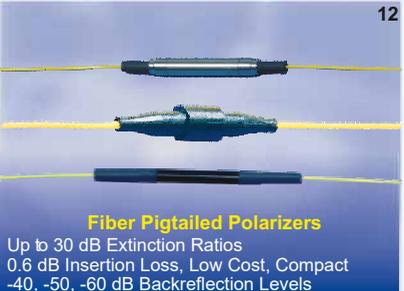
Polarization Dependent Loss Emulators
0.05 dB to 1 dB Polarization Dependent Loss
Fixed or Manually Variable PDL Broad Wavelength Range, Compact, and Low Cost

11



PM Fiber Circulators
0.7 dB Typical Insertion Loss
532 nm to 2000 nm Wavelength Range
Up to 30 dB Extinction Ratios

12



Fiber Pigtailed Polarizers
Up to 30 dB Extinction Ratios
0.6 dB Insertion Loss, Low Cost, Compact
-40, -50, -60 dB Backreflection Levels

13



Variable Optical Delay Lines
400-2000 nm Wavelength Range
Up to 600 ps Delay, 0.003 ps Resolution
< 1.2 dB Losses Over The Delay Range

14



All Fiber Polarization Controllers (Manual)
Compact Size, Easy-to-Use
No Intrinsic Insertion Losses or Return Losses
Works With Any Singlemode Fiber

15



Polarization Rotators / Analyzers
Greater Than 30 dB Extinction Ratios
-40, -50, -60 dB Backreflection Levels 1 dB IL
Fiber-Fiber and Fiber-Photodiode Versions



OZ Optics Ltd.
Headquarters, Canada
Tel: +1-800-361-5415
Tel: +1-613-831-0981
Fax: +1-613-836-5089
sales@ozoptics.com

OZ Optics USA
California Division
Tel: +1-510-770-1268
Fax: +1-510-770-1726
qxu@ozoptics.com



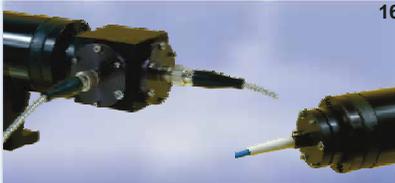
OZ Optics Türkiye
Tel: +90-232-252-3531
Fax: +90-232-252-3498
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Tel: +86-573-8222-3078
Fax: +86-573-8222-3012
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Laser & Laser Diode to Fiber Delivery Components

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Laser to Fiber Couplers
 > 60% Coupling Efficiency For SMF & PMF Low / High Power Versions up to 100 W 180 nm to 2000 nm Wavelengths

17



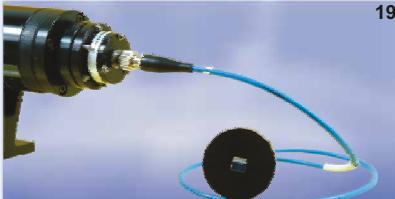
Laser to Fiber Couplers with Adjustable Focus
 Up to 95% Coupling Efficiency for SMF & PMF SMF, MMF & PMF Versions
 0.1 Micron Resolution in Focus Adjustment

18



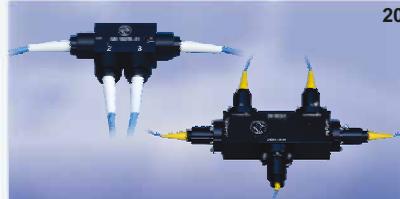
Adjustable Fiber Collimators/Focusers/Connectors
 Use for Adjustable Focusers and Couplers Super & Angled FC/PC, And SMA905 Connectors SMF, MMF & PMF Versions

19



Delivery Systems for Flow Visualization
 Uniform Intensity Along the Line
 < 1 mm Linewidths, 10° To 60° Fan Angles
 Cross Targets Also Available

20



Red/Green/Blue WDM Combiners
 Combine Red, Green and Blue Sources with Low Loss Singlemode, Multimode and PM Fiber Versions
 High Power Handling. 2 to 6 Wavelength Versions

21



Receptacle Style Collimators/Focusers
 0.2 mm to > 15 mm Beam Diameters
 180 nm to 2000 nm Wavelengths
 Achromatic Collimators Available

22



Pigtail Style Collimators/Focusers
 As Small as 2µm Spot Sizes, up to 5 W Power
 Up to -60 dB Backreflection SMF, PMF & MMF
 1.6 mm, 2.5 mm, 4 mm and 8 mm OD Housing
 High Power Versions Available, up to 300 W

23



Fused Fiber Collimators
 Low Insertion Loss
 Low Backreflection
 Over 1 kW Power Handling

24



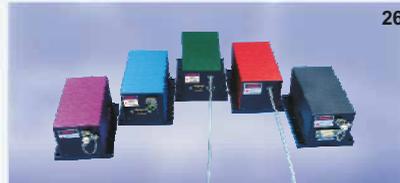
Precision Fiber Collimator/Focuser Arrays
 High Density, Small Footprint
 Low Insertion and Backreflection Loss
 High Polarization

25



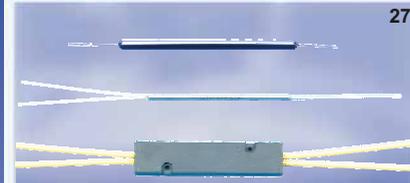
OEM Laser Diode to Fiber Couplers
 375 nm to 1625 nm Wavelengths
 Up to 80% Coupling Efficiency into SMF & PMF
 PC Board Mountable, Reusable Optics

26



Turnkey OEM Laser Diode Sources
 Wavelength Range: 375 nm to 2000 nm
 Externally Modulatable
 Red, Green, Blue Combiner Versions Available

27



Fused Fiber Optic Couplers
 1x2, 2x2 and 1xN Couplers Available
 SM, MM, and PM Fibers
 400 nm to 1550 nm Wavelengths

28



Fiber to Photodiode Couplers
 >70% Coupling Efficiency, SMF, MMF & PMF
 -40 dB, -50 dB, -60 dB Backreflection
 Low Cost, Rugged and Compact Size

29



U-Bracket with Removable Optics
 As Good as 0.6 dB Insertion Loss
 -40, -50, -60 dB Backreflection
 Use with A/O Modulators, Bulk Optics

30



Alignment Kits & Tools
 Polarization Tool Aligns Polarization in Seconds
 Alignment Kit Simplifies Laser to Fiber Coupling
 Video/USB Demonstrates the Coupling Process



OZ Optics Ltd.
 Headquarters, Canada
 Tel: +1-800-361-5415
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 Fax: +1-613-836-5089
 sales@ozoptics.com

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 California Division
 Tel: +1-510-770-1268
 Fax: +1-510-770-1726
 qxu@ozoptics.com



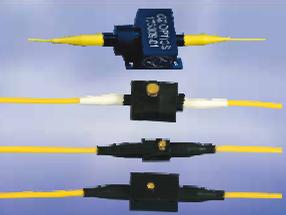
OZ Optics Türkiye
 Tel: +90-232-252-3531
 Fax: +90-232-252-3498
 sales@ozoptics.com.tr



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 sales@ozoptics.com.cn

Fiber Optic Attenuators

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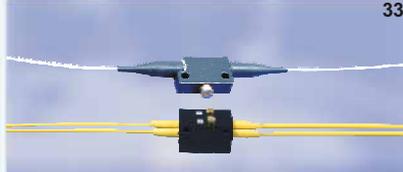
Inline Variable Attenuators
0.6 dB to 80 dB Attenuation Range SMF, PMF & MMF
Up to 2 W Power, Flat Wavelength Response
< 0.01 dB PDL, Meets Telcordia Specifications

32



Reflective Style Variable Attenuators
0.8 dB to 60 dB Attenuation Range
0.01 dB Resolution, SMF & MMF Versions
-40 dB, -50 dB, -60 dB Backreflection

33



Miniature Single/Multi-Channel Variable Attenuators
Less Than 5 mm Thick per Channel
Ideal for High Density Fiber Networks
High Power Handling, Low Loss, PDL And WDL

34



Electrically Controlled Attenuators
0.6 dB to 60 dB Attenuation Range SMF, PMF & MMF
Maintains Attenuation with Power Off, up to 2 W Power
Low Cost, High Speed, Rugged and Compact Size

35



Reflective Style Motor Driven Attenuators
0.8 dB - 60 dB Attenuation Range
Up to 2 W Power Handling SMF, PMF & MMF
High Speed, Rugged and Compact Size

36



MEMS Variable Attenuators
Compact and Inexpensive
Single Channel up to 40 Channel Versions
Low Loss, Large Attenuation Range

37



Digital Variable Attenuators
0.01 dB Resolution, Fast Response Time
0.6 dB to 60 dB Attenuation Range
Computer / USB Port / Battery Option

38



Benchtop Digital Multichannel Attenuators
High Power Up to 2 Watts
Up to 60 dB Attenuation Range
350-2050 nm Wide Wavelength Range

39



Rack Mount Electrically Controlled Variable Attenuators High
Power up to 2 Watts
Up to 60 dB Attenuator Range
350-2050 nm Wide Wavelength Range

40



Loopback Style Fixed Attenuators
Mode Independent Attenuation
Rugged, Compact Housing
SMF & MMF Versions

41



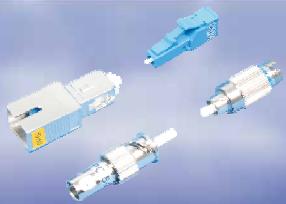
Attenuating Fiber Patchcords
Up to 2 Watts Power Handling, Low PDL
SM, PM Fiber Versions
Very Low Cost, Small Size

42



Removable Neutral Density Attenuators
Mode Independent Attenuation
Pigtail And Receptacle Styles
SMF, MMF & PMF Versions

43



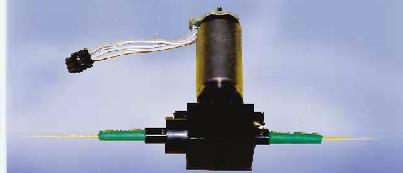
Plug Type Fixed Attenuators
< -50 dB Backreflection, SMF & MMF
-1 dB to -25 dB Attenuation, 1300 & 1550 nm Only
Low Cost, Rugged and Compact Size

44



Fiber Optic Terminators
Designed to Kill Backreflection in Unused Ends
50 dB Return Loss, 1300/1550 SM Fiber Only
Ultra, FC/PC and SC Connectors

45



OEM Motor Driven Variable Attenuators
0.6 dB to 60 dB Attenuation Range SMF, PMF & MMF
Maintains Attenuation with Power Off, up to 2 W
Low Cost, High Speed, Rugged and Compact Size



OZ Optics Ltd.
Headquarters, Canada
Tel: +1-800-361-5415
Tel: +1-613-831-0981
Fax: +1-613-836-5089
sales@ozoptics.com

OZ Optics USA
California Division
Tel: +1-510-770-1268
Fax: +1-510-770-1726
qxu@ozoptics.com



OZ Optics Türkiye
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Fax: +90-232-252-3498
sales@ozoptics.com.tr



OZ Optics China Ltd.
Tel: +86-573-8222-3078
Fax: +86-573-8222-3012
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Fiber Optic Connectors, Patchcords and Components for Optoelectronic Packaging

46

Hermetically Sealable Patchcords with Metal Solder (Single/Multi Channel)
Meets Telcordia Specifications, up to 16 Channels
SMF, MMF & PMF Versions
Customer Specific OEM Designs

47

Hermetically Sealable Patchcords with Glass Solder (Single/Multi Channel)
No Metalization Required, up to 16 Channels
Meets Telcordia Specifications SMF, MMF & PMF
Customer Specific OEM Designs

48

12 and 16 Channels MPO/MTP Polarization Maintaining Fiber Assemblies
High precision polarization axis alignment to the Base of the MPO connector to $\pm 3^\circ$ Min. Extinction Ratio (PER) of ≥ 20 dB and a Typical PER of ≥ 25 dB Ferrules and Connectors with PC or APC Termination

49

Tapered/Lensed Fibers
As Small as 2.0 Micron Spot Sizes
Circular and Oval Spot Profiles
Custom OEM Designs, Metalized Versions

50

Metalized Fibers
SMF, MMF & PMF Versions
Ideal for Hermetic Component Packaging
Cleaved Fiber Endfaces, Masked Regions

51

V-Groove Substrates
Up to 96 Fiber Substrates
Better than 0.5 Micron Accuracy
Use with Either UV or Thermal Epoxies

52

Glass Solder Preforms
Solders Glass Directly to Metal
Ideal for Hermetic Sealing, Device Packaging
Circular and Oval Preform Shapes

53

Hermetic Patchcords with Built-in Optical Taps
Allows In-Line Monitoring Inside Devices
Wide Wavelength Range, Automatable
SM, PM Fiber Versions

54

Fiber Optic Ferrules
Glass, Zirconia, and Kovar Metal Ferrules
Cylindrical and Rectangular Shapes Custom Shapes and Hole Sizes

55

PM Fiber Pigtailed V-Groove Assemblies
Up to 48 Fibers in Single Array
High Extinction Ratio
127, 250, 400, 500 Micron Spacings

56

Dual Fiber Pigtailed Assemblies
SM, MM, and PM Fiber Versions
PM Stress Rods Aligned to ± 0.5 Degrees
Miniature Size Ideal for Packaging

57

2D Fiber Arrays
Up to 12x12 channels
Available in SM, MM, and PM Configurations
Available with a range of Termination Options

58

Fiber Pigtailed V-Groove Arrays
Up to 96 Fibers in a Single Array
127, 250, 400 and 500 Micron Spacings
SM, MM, and PM Fibers

59

Bulkhead Receptacles
Available for FC, LC, ST, SMA, SC, FC/APC, Angled AT&T-ST and Angled SC
Designed for Free Space Use, Compact Size

60

Bare Fiber Adaptors with Magnetic Clip
Very Easy to Hold Bare Fibers
FC, ST, LC, SC, SMA, E2000, MU Available
80 Micron – 1000 Micron Hole Sizes



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Tel: +1-800-361-5415
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Fax: +1-613-836-5089
sales@ozoptics.com

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Fax: +1-510-770-1726
qxu@ozoptics.com



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sales@ozoptics.com.tr



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Tel: +86-573-8222-3078
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sales@ozoptics.com.cn

High Power Fiber Optic Components

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High Power Patchcords and Connectors
Able to Transmit over 100 W of Optical Power
Operating Wavelengths from 180 nm to 2000 nm
PMF, SMF, and MMF High Power AR Coatings

62



High Power Collimators/Focusers
Up to 100 Watts CW Power Handling
Available for 180 nm to 2000 nm Wavelengths
Receptacle and Pigtailed Versions

63



High Power Fiber Pigtailed Isolators
Low Insertion Loss, up to 100 Watts
1064 nm Fiber-to-Fiber and Fiber-to-Air Versions
Polarization Independent, High Isolation

64



High Power Directional Taps/Power Monitors
Up to 10 Watts Power Handling SM,
PM and Specialty Fiber Versions
Available for 320 nm to 2000 nm

65



High Power Fiber Optic Shutters with Safety Interlocks
Up to 100 Watts Power Handling
Fiber-Fiber and Source-Fiber Versions
Available for 180 nm to 2000 nm Wavelengths

66



High Power Mode Field Adapters
High Power Handling
Adapts and Conserves Modal Content
Custom Designs Available

67



High Power Bulkhead Receptacles/Sleeve Thru Adaptors with Safety Interlocks
High Power Handling
Contact, Temperature, Proximity Sensors Fiber to Air and Fiber to Fiber Versions

68



High Power Wavelength Division Multiplexers
0.8 dB Insertion Losses, 65 dB Isolation
Up to 2 Watt Power Handling
-40 dB, -50 dB, -60 dB Backreflection

69



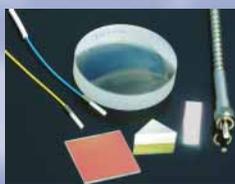
High Power Free Space Splitters Fiber to Fiber Version
Up to 100 Watts Power Handling
Available Wavelengths from 400 nm to 2000 nm
MM, SM, PM Fiber Versions

70



High Power Free Space Splitters Source to Fiber Type
Up to 100 Watts Power Handling
Available Wavelengths from 400 nm to 2000 nm
MM, SM, PM Fiber Versions

71



High Power Optical Coatings
High Power AR, Beamsplitter, Dichroic Coatings on
Fibers, Micro Optics, Lenses, Plates, Prisms etc.
Low Temperature High Abrasion Resistant Coatings

72



OZPEN CO, Cleaning Unit for High Power Components
Designed to Clean Small Surfaces
Superior to Other Cleaning Methods
Quick Dry and Solvent-Free Cleaning Process

73



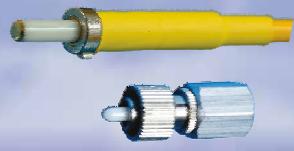
Fused Fiber Collimators
Low Insertion Loss
Low Backreflection
Over 1 kW Power Handling

74



Bulkhead Receptacles
Available for FC, LC, ST, SMA, SC, FC/APC,
Angled AT&T-ST and Angled SC
Designed for Free Space Use, Compact Size

75



High Power Antireflection (AR) and Highly Reflective (HR) Coated Fiber Ends
HR, R > 98%, AR < 0.3%
350 nm to 2000 nm Wavelength Coatings SMF,
MMF & PMF Versions



OZ Optics Ltd.
Headquarters, Canada
Tel: +1-800-361-5415
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OZ Optics USA
California Division
Tel: +1-510-770-1268
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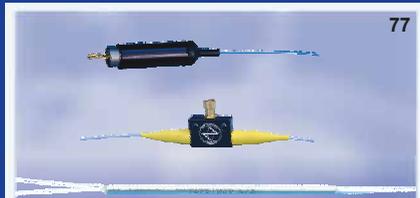
OZ Optics China Ltd.
Tel: +86-573-8222-3078
Fax: +86-573-8222-3012
sales@ozoptics.com.cn

Miscellaneous Fiber Optic Components



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OCT Module/Components
Complete Module or Separate Component
Such as Broadband Isolators, Sources, Attenuators,
Collimators, Fused Splitters, Delay Lines



77

2000 nm Components
Fiber Pigtailed Sources
Isolators, Attenuators
Fused Splitters, Collimators



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Fiber Optic Termination Kits
For FC, LC, ST, SMA or SC Connectors
Contains All the Necessary Polishing Films,
Tools, Epoxies and Accessories



79

Fiber Optic Educational Kits
Teaches Basics of Fiber Optics
Easy-to-Use, Affordable
Wide Range of Labs Available



80

Faraday Mirrors and Rotators
Used in EDFA, Tunable Lasers, Etc. 0.7
dB Typical Insertion Loss
-40, -50, -60 dB Backreflection



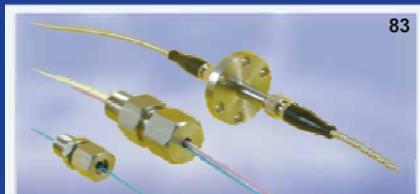
81

Fiber Optic Shutters
Up to 100 W Optical Power SMF, PMF & MMF
Fast Response Time
Ideal for Safety Interlocks



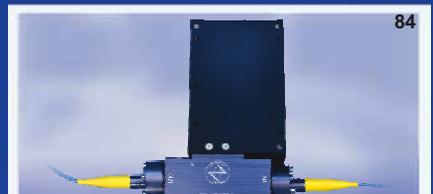
82

Pin Gauges for Fiber OD Measurements
Easy-to-Use, Low Cost
124-128 Micron Gauges Available
Individual or 5-In-One Gauges



83

Vacuum Feedthroughs
Singlemode and Multimode Versions
Easy to Install And Use. Compact and Rugged
Gas Leak Rate 10^{-6} scc/sec



84

Polarization Insensitive Tunable Filters
Manual and Electrically Controlled Versions
50 nm Range, as Low as 0.4 nm Line Widths
< 0.35 dB Polarization Dependent Losses



85

Compact RGB Engine/Combiner
Combine up to 5 Visible Wavelengths in One Fiber
Compact Size
High Power Handling



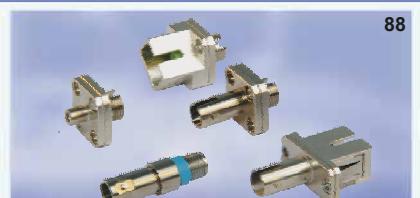
86

Bare Fiber Adaptors with Magnetic Clip
Very Easy to Hold Bare Fibers
FC, ST, LC, SC, SMA, E2000, MU Available
80 Micron - 1000 Micron Hole Sizes



87

Mechanical Bare Fiber Adaptors
Use to Hold Bare Fibers
FC, ST Versions Available
80-1000 Micron



88

Universal Connectors/Hybrid Patchcords
Less than 0.5 dB Insertion Loss
Ultra, Super, Angled FC/PC, LC, SC, ST & SMA
Low Cost, Rugged And Compact Size



89

Sleeve Thru Adaptors
Available For FC, ST, SMA, SC And LC, MM
Less Than 0.3 dB Insertion Losses
Patch Panel Mountable, Duplex Styles



90

Air Gap Variable Attenuators
Very Compact Size
Patch Panel Mountable
FC/PC And ST Connector Styles



OZ Optics Ltd.
Headquarters, Canada
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axu@ozoptics.com



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sales@ozoptics.com.tr



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Miscellaneous Fiber Optic Components

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Benchtop High Speed Polarization Controller Scramblers
 Continuous Control of Polarization
 Negligible Insertion and Return Losses
 Up to 2 kHz Response Speed

92



600 ps Reflector Style Manual Variable Delay Lines
 400–200 nm Wavelength Range
 Up to 600 ps Variable Delay Line
 Low Insertion Loss

93



600 ps Reflector Style Delay Lines with Servo Motor
 400–200 nm Wavelength Range
 Up to 600 ps Variable Delay Line
 Low Insertion Loss

94



Fiber Reflectors
 Low Loss, Compact Design
 400–2000 nm Wavelengths Available
 Partial Reflectors are Available

95



Benchtop Polarization Extinction Ratio Meters
 Measures up to 50 dB
 450–2400 nm Wide Wavelength Range
 0.5° Angle Accuracy

96



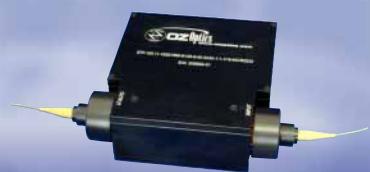
PM Fiber Optic Switches
 Repeatability $\pm 0.05\text{ dB}$
 1x2 Miniature Reliable Switching Mechanism
 Low Loss <math>< 0.6\text{ dB}</math>, High ER >math>20\text{ dB}</math>

97



Electrically Controlled Fabry-Perot Tunable Filters
 Tuning Rate up to 25 kHz
 Narrow Bandwidth
 Low Insertion Loss

98



Motor Driven Variable Bandwidth Tunable Filters
 45 nm Tunable Range
 Flat Top Filter Shape
 Polarization Insensitive

99



Manually Tunable Variable Bandwidth Filters
 45 nm Tunable Range
 Flat Top Filter Shape
 Polarization Insensitive

100



Polarization Measurement System for V-Grooves
 Measures Polarization Angle to ± 0.5 Degrees
 Measures Extinction Ratios up to 40 dB
 Measures Relative Power (650 Hz Sample Rate)

101



Connector Video Microscopes
 Easy-to-Use
 Up to 400x Magnification
 LC, FC, SC, E2000 or Other Custom Connectors

102



Connector Cleaning Units
 Easy-to-Use
 Low Cost
 2.5 mm, 1.25 mm, Custom Design Connectors

103



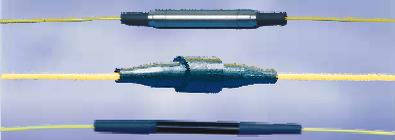
Laser Diode Power Combiners
 Up to 45% Coupling from Each Diode
 -40, -50, -60 dB Backreflection SMF, PMF & MMF
 Can Combine Equal / Different Wavelengths

104



Fiber Optic Fixed Filters
 400 nm to 1600 nm Wavelengths, SMF & PMF
 -40 dB, -50 dB, -60 dB Backreflection
 Filters Can Be Fixed or Removable

105



Low Power Isolators
 Compact Size
 440–2000 nm Wavelengths Available
 Low Insertion Loss



OZ Optics Ltd.
 Headquarters, Canada
 Tel: +1-800-361-5415
 Tel: +1-613-831-0981
 Fax: +1-613-836-5089
 sales@ozoptics.com

OZ Optics USA
 California Division
 Tel: +1-510-770-1268
 Fax: +1-510-770-1726
 qxu@ozoptics.com



OZ Optics Türkiye
 Tel: +90-232-252-3531
 Fax: +90-232-252-3498
 sales@ozoptics.com.tr



OZ Optics China Ltd.
 Tel: +86-573-8222-3078
 Fax: +86-573-8222-3012
 sales@ozoptics.com.cn