

Fiber Optic Components for AI, Optical Interconnects and Photonics Integrated Circuits Packaging solutions

OZ Optics Limited

September 2025

Table of Contents

- **Company Background**
- **Corporate Statements and Quality Policy**
- **Company Profile**
- **Core Competencies**
- **Leading Technology**
- **Industry Standards**
- **Marketing Strategy**
- **Operation Strategy**
- **OZ Optics Canada**
- **OZ Optics Türkiye**
- **OZ Optics China**

Company Background



- **Founded in 1985**
- **Corporate headquarter located in Ottawa, Canada**
- **Manufacturing facility in
Ottawa / Canada, Izmir / Turkiye and Jiaxing / China**
- **12 Product Groups:**
 - Laser-to-Fiber Delivery Systems
 - High Power Fiber Optic Components
 - Polarization Maintaining Products
 - Attenuators
 - Opto-Electronic Packaging
 - Fiber Optic Test Equipment
 - Fiber Optic Sensor Systems
 - Fiber Optics Components for Gyroscope
 - Fiber Optics Components for OCT
 - Fiber Optics Components for BioPhotonics
 - Fiber Optics Components for Quantum
 - Fiber Optics Components for AI Optical Connectivity
- **Sales offices in
Canada, USA, Europe, Turkiye and China**

➤ Ottawa, Canada



➤ Izmir, Türkiye



➤ Jiaxing, China



Corporate Statements and Quality Policy



Our Vision

- ✓ Capture and expand market share
- ✓ Be the preferred supplier of choice
- ✓ Maximize shareholder value

Our Mission

To become the leading provider of innovative optical products to telecom and non-telecom sectors

Our Core Values

- ✓ Leadership
- ✓ Teamwork
- ✓ Boldness
- ✓ Commitments
- ✓ Innovation
- ✓ Rewards

Our Quality Policy

Provide our Customers with a competitive advantage, leveraging performance, price and delivery, through a continuous process of Quality advancement in all areas of our Company.

Communicate effectively to our Customers, Suppliers and Shareholders our commitment to Quality, continuous improvement and to abide by any applicable requirements.

Promote opportunities of professional development for all members of our company through education, training and personal challenge.

Company Profile



Over 489 employees worldwide

OZ Canada



240+
Employees

OZ China



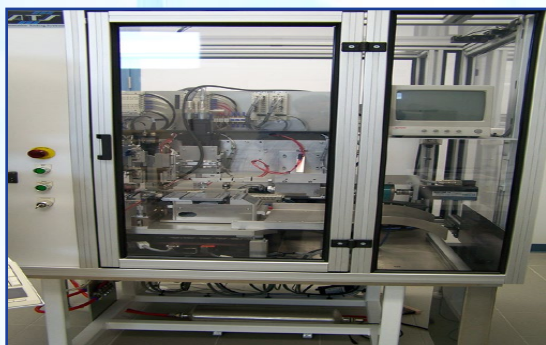
120+
Employees

OZ Türkiye



129+
Employees

Company Profile



**Advanced Proprietary
Processing Technology**



**Canada
Certificate: FM 63463**



**China
Certificate: FM 577647**



**Turkey
Certificate: FM 601414**

ISO9001:2015 Certified



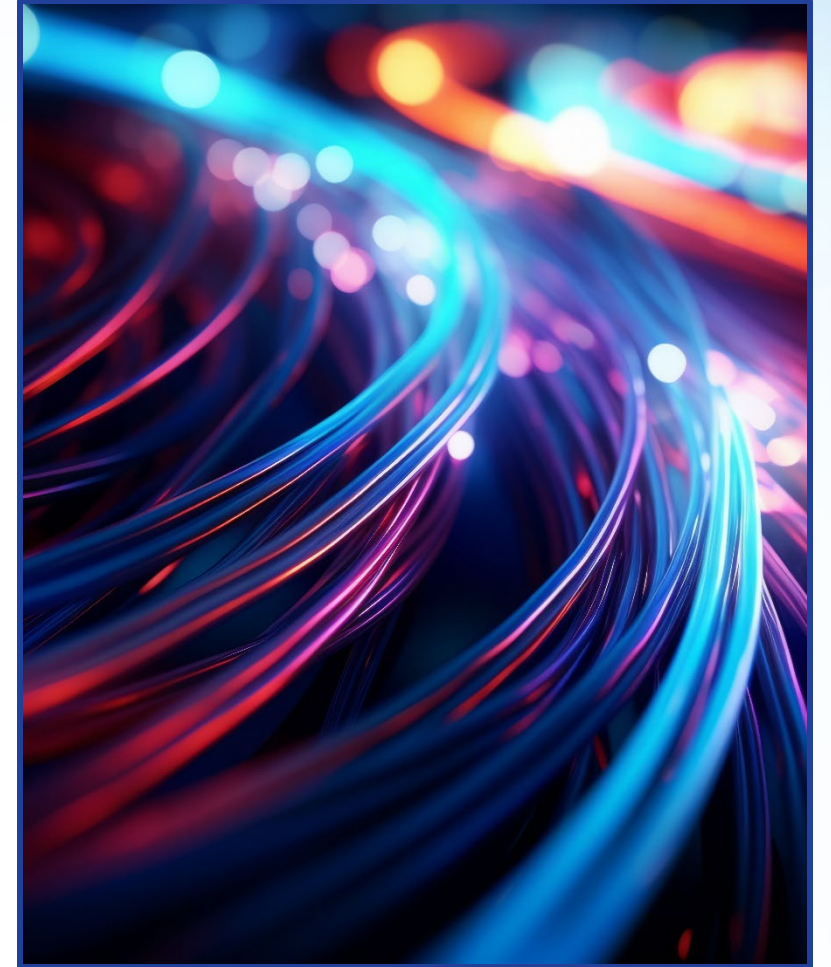
Broad Patent Portfolio



Company Profile

OZ Optics is Lead by an Experienced Team:

- **Ömür Sezerman, Chairman, President & CEO**
 - Founder and CEO since inception (40 years)
- **Zahide Sezerman, VP of Human Resources**
 - With OZ Optics since inception (40 years)
- **Garland Best, VP of Components Division**
 - 33 years at OZ Optics
- **Gordon Youle, VP of Test Equipment Division**
 - 26 years at OZ Optics
- **Saeed Pilevar, Senior VP of Business Development**
 - 1 year at OZ Optics
- **Onur Koca, General Manager of OZ Türkiye**
 - 3 year at OZ Optics
- **Bing Li, General Manager of OZ Optics China**
 - 21 years at OZ Optics



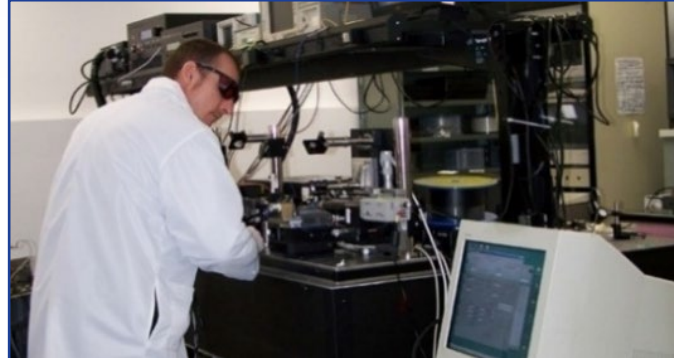
Company Profile

**Experienced and Well-Trained Staff in Following Fields:
Optical, Mechanical, Electronics & Software**

CNC Machine Shop



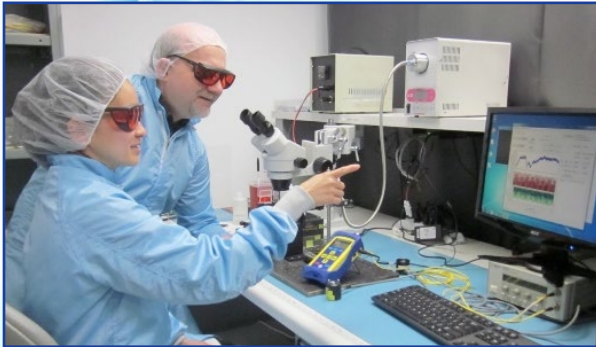
Femto-Second Laser Lab



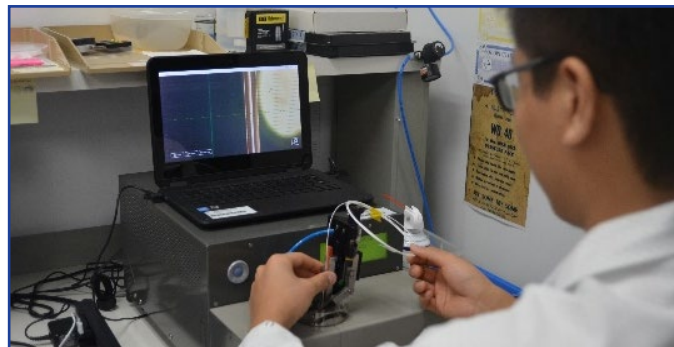
AR Coating



Clean Room



Laser Conditioning/Cleaving





Core Competencies

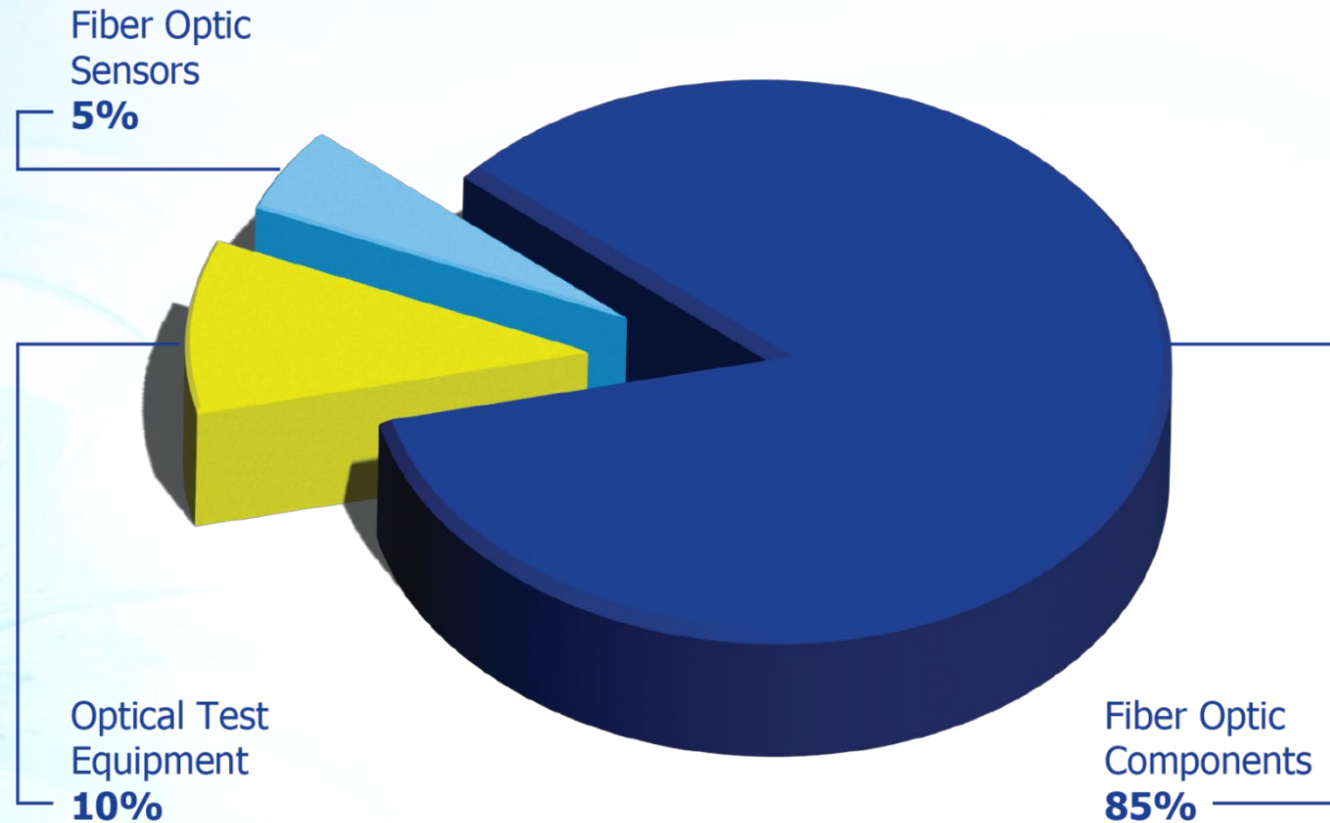
- **Pioneer in Polarization Maintaining (PM) Components & Custom Test Equipment, Including Polarization Test Equipment and FTTH Equipment**
- **Leader in Wavelength Flattened, High Power & Low PDL Components**
- **Leader in High Power Fiber Optic Delivery Systems**
- **Widest Range in Attenuator Product Offering**
- **Fiber Optic Distributed Strain and Temperature Sensors**
- **Complete product line for AI Optical Connectivity, OCT, Gyroscope & BioPhotonics applications & 2 Micron**
- **Now available: Spectrometers and Quantum Light Sources**



Leading Technology



➤ **Three Product Groups** ➤ **Over 1,000 Products** ➤ **Leading Edge R&D**





Leading Technology

Featured Products

World's Largest Online Fiber Optic Catalog

Most Products are in Stock



Quantum Light Sources



Fiber Optic Products for
Biophotonics Applications



Fiber Optic Products
for Gyroscopes



Polarization Maintaining
Components



Delivery Systems



High Power
Components



Test Equipment



High and Low Power
Patchcords

Polarization Maintaining Fiber Optic Components

Patent Numbers: USA 7058275, 7095931, 7295731, China 1672073



Polarization Maintaining
Connectors and Patchcords



Polarization Maintaining and
Polarizing Splitters / Combiners /
Fused Couplers / Switches



All Fiber Manual and Electrically Driven
Polarization Controllers / Seramblers



Polarization Dependent
Loss Emulators



Fiber Pigtailed Polarizers



PM Fiber Directional Taps and
PLC Splitters



Isolators



PM Fiber Pigtailed
Circulators

Laser and Laser Diode to Fiber Delivery Systems



Laser to Fiber Couplers



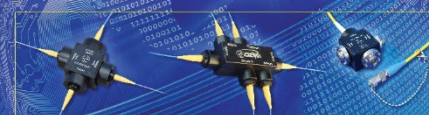
Pigtail, Receptacle Style
Collimators and Focusers



Bulkhead Receptacles



Bare Fiber Adaptors with
Magnetic Clips



Wavelength Division Multiplexers(WDMs) and RBB Combiners



OCT Modules and
2 micron Components



Evanescent Based
Variable Split Ratio
Fiber Splitter/Coupler



OEM Laser Diode to
Fiber Couplers



High Power Splitters and
Wavelength Division Multiplexers
(WDMs)



Shutters, Receptacles and
Sleeve Thru Adapters with Sensors



High Power Isolators

High Power Fiber Optic Components

Patent Numbers: Canada 2494133, USA 7058275,
7095931, 7295731, China 1672073



High Power, High Temperature
Connectors and Patchcords



OZPEN™ CO-2 Fiber Optics Cleaning
Unit for High Power Components



High Power Laser to Fiber
Couplers, Collimators and Focusers



High Power Mode Field Adapters



High Power Optical Taps and
Power Monitors



High Power Isolators



High Power Splitters and
Wavelength Division Multiplexers
(WDMs)



Shutters, Receptacles and
Sleeve Thru Adapters with Sensors



Leading Technology

Featured Products



Fiber Optic Attenuators

Polarization Maintaining, Single Mode and Multi-Mode Fibers



Benchtop Digital



Variable Attenuators



Digital Variable Attenuators



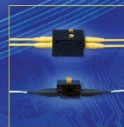
Electrically Controlled Variable Attenuators



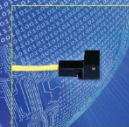
MEMS Variable Attenuators



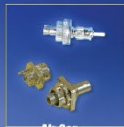
PM, SM and MM Fibers Pigtailed Inline Variable Attenuators



Single and Multi Channel Miniature Variable Attenuators



Reflective Style Variable Attenuators



Air Gap Variable Attenuators



Plug Type Fixed Attenuators



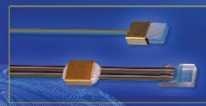
Attenuating Fiber Patchcords

Fiber Optic Components for Optoelectronic Packaging

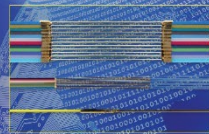
Hermetically Sealable Patchcords with Glass or Metal Solder



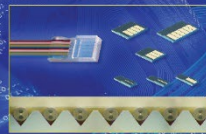
Single Channel



Multi Channel



Metalized Fibers



PM, SM and MM Fiber Pigtailed V-Groove Arrays



Polarization Measurement System for V-Grooves



Tapered, Lensed Fiber, Polished and Laser Shaped



Precision Collimator and Focuser Array

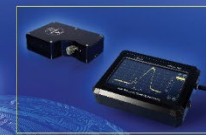


Fused Fiber Collimator

Fiber Optic Test Equipment



Quantum Entangled Photons Sources



High-Resolution Optical Spectrometers



Optical Fiber Length Meters



Back Reflection Meters



High-Speed Polarization Controller-Scrambler



Handheld and Benchtop Extinction Ratio Measurement Systems



Multichannel, Benchtop and Handheld Digital Variable Attenuators



High Power Visual Fault Locators



Powermeters with Smart Detector Heads

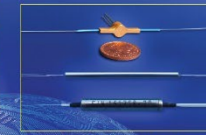


Laser Diode Stable Sources

Fiber Optic Components for 2 Micron Wavelengths



Fiber Optic Patchcords



Fused Couplers, Taps, Beam Splitters and Combiners



Fiber Pigtailed Laser Diode Sources



Pigtailed, Receptacle Style Collimators and Focusers



High Speed Electro-Optic Polarization Controllers and Scramblers



Manual and Electrically Controlled Variable Attenuators



Polarizers



Isolators



Leading Technology

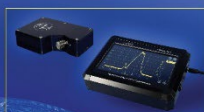
Featured Products



New Fiber Optic Products



Polarization Entangled
Photon Sources



High-Resolution
Optical Spectrometers



High Speed Electro-Optic Polarization
Controllers and Scramblers



Polarization Entanglement
Tomography Analyzers



Fiber Optic Coils
For Gyroscopes



Universal Optical DNA Rapid
Detection Systems for Pathogens



Motor Driven Polarization
Dependent Loss Emulators



Detector Heads and
Optical Power Monitors



Fiber Optic Products for Gyroscopes



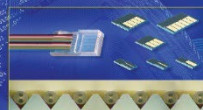
Fiber Optic Coils
for Gyroscopes



ASE Sources



Wavelength Division
Multiplexers



PM, SM and MM Fiber Pigtailed
V-Groove Arrays



Fused Couplers, Taps,
Beam Splitters and Combiners



Fiber Optic Polarizers



Fiber Optic
Patchcords



SM and PM Fiber
Pigtailed Circulators



Isolators

Quantum Entangled Photons Sources



Hyper-Entangled Photon Source
Broadband Telecom



Polarization-Entangled Photon Source
Broadband Telecom



Bright Polarization-Entangled Photon
Source Broadband Telecom



Bright Polarization-Entangled Photon
Source Narrowband Telecom



Correlated Photon Pair Sources



Polarization-Entangled Photon Source
Narrowband at 610 nm



Polarization Entanglement
Tomography Analyzer

Fiber Optic Products for OCT Applications



OCT Modules



Manual and Electrically Controlled
Broadband Variable Attenuators



Manual and Electrically Controlled
Fiber Optic Delay Lines



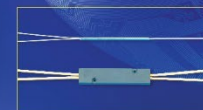
Manual and Electrically Controlled
Polarization Controllers / Scramblers



Fiber Pigtailed
Broadband SLED Sources



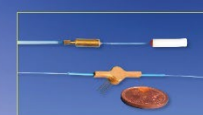
Fiber Collimators / Focusers



Broadband Fused Couplers



SM and PM Fiber
Pigtailed Circulators





Leading Technology

Featured Products

Fiber Optic Products for AI Optical Connectivity

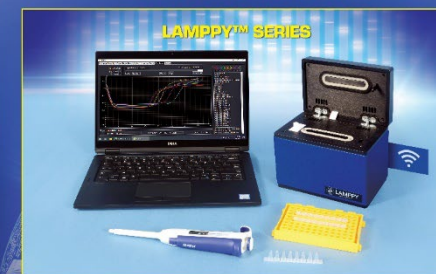


Fiber Optic Products for Biophotonics Applications



Universal Optical DNA Rapid Detection System

For Pathogens Including:
COVID-19, SARS, EBOLA, CHOLERA, SALMONELLA, ETC.



Features:

- Use to detect viral, fungal, and bacterial DNA/RNA
- Rapid DNA/RNA detection (as little as 20 minutes)
- Highly sensitive and specific detection of low viral levels
- Intuitive software displays real time data during testing
- Melt analysis available with the included software
- Lid heater prevents evaporation and condensation
- Compact modular design allows for easy cleaning and maintenance
- Pair with an external battery for a portable and field-deployable system
- Test up to 8 samples simultaneously (higher throughput systems with up to 96 samples available upon request)
- Wireless communication with dual-band Wi-Fi and Bluetooth connectivity
- A fraction of the cost of qPCR based systems
- OZ Optics also offers private labelling for volume OEM applications

Clinical trial: LAMPPIY™ vs. Leading brand qPCR machine



In a lab study done at Acibadem University using saliva samples taken from patients at the Acibadem Hospitals, LAMPPIY was compared to a well-known conventional qPCR machine in performance and speed. The comparison study was carried out with a sample size of 262 using the COVID LAMP-based kit on both instruments and then verified with the KrosQuant SARS-CoV-2 (2019 nCoV) Real Time PCR Diagnostic Kit on a leading brand conventional qPCR machine.



Leading Technology

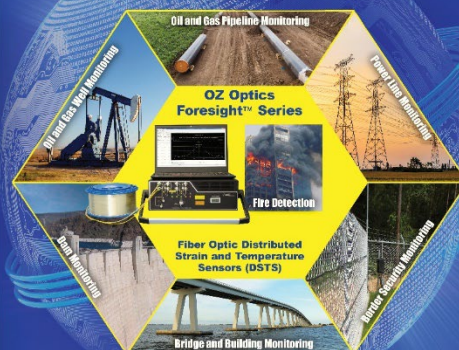
Featured Products



Fiber Optic Distributed Strain and Temperature Sensors

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunications fibers to minimize costs



Fiber Optic Sensors for Pipeline Monitoring

USA Patent Numbers: 7499151, 7599047, and 9568307

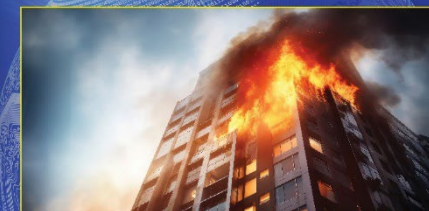
- Pipeline leakage detection
- Sensitive detection of corrosion / erosion, cracks and buckling
- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunication fiber to minimize costs



Fiber Optic Sensors for Fire Detection

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunications fiber to minimize costs





Leading Technology

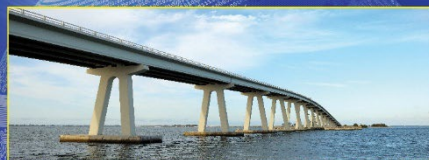
Featured Products



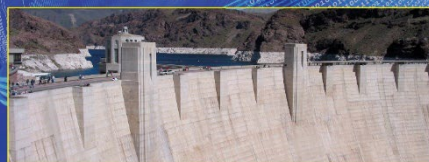
Fiber Optic Sensors for Bridges, Dams and Buildings

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunications fibers to minimize costs



Bridge Monitoring



Dam Monitoring



Building Fire Detection

Fiber Optic Sensors for Power Line and Smart Power Generator Monitoring

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunication fiber to minimize costs



Underground Power Line Monitoring



Power Line Monitoring



Optical Ground Wire (OPGW)



Construction of OPGW



Gas Generator Monitoring

Fiber Optic Sensors for Security Monitoring

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunication fiber to minimize costs



Border Security Monitoring



Highway Health Monitoring



Industry Standards

All Products Manufactured are in Strict Accordance with International Industry Standards:

- **ISO 9001:2015 Certified (Canada, China and Türkiye)**
- **REACH Compliance**
- **RoHS Compliance**
- **CE Compliance**
- **Telecordia Compliance**
- **Controlled Goods Directorate Registered**
- **Critical supplier for F35 and F18 Project**
- **TSCA (Toxic Substance Control Act) Compliance**
- **CHEMSHERPA Compliance**
- **IEC 61010 Compliance**



Marketing Strategy



Application Market

Using our strong direct sales and distributors, we address the following markets:

- **Energy – Oil and Gas**
- **Military and Homeland Security**
- **Educational**
- **Industrial**
- **Telecom / Datacom**
- **Medical & Pharmaceutical**





Marketing Strategy

Global Sales Network

OZ Optics has resellers and distributors in over 30 Countries and Regions with over 10,000 customers worldwide:



Austria



Germany



Luxembourg



Sweden



Belgium



Greece



Netherlands



Switzerland



Brazil



Hong Kong



Norway



Taiwan



Canada



India



Poland



Thailand



China



Ireland



Portugal



Türkiye



Denmark



Italy



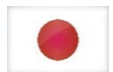
Singapore



United Kingdom



France



Japan



South Korea

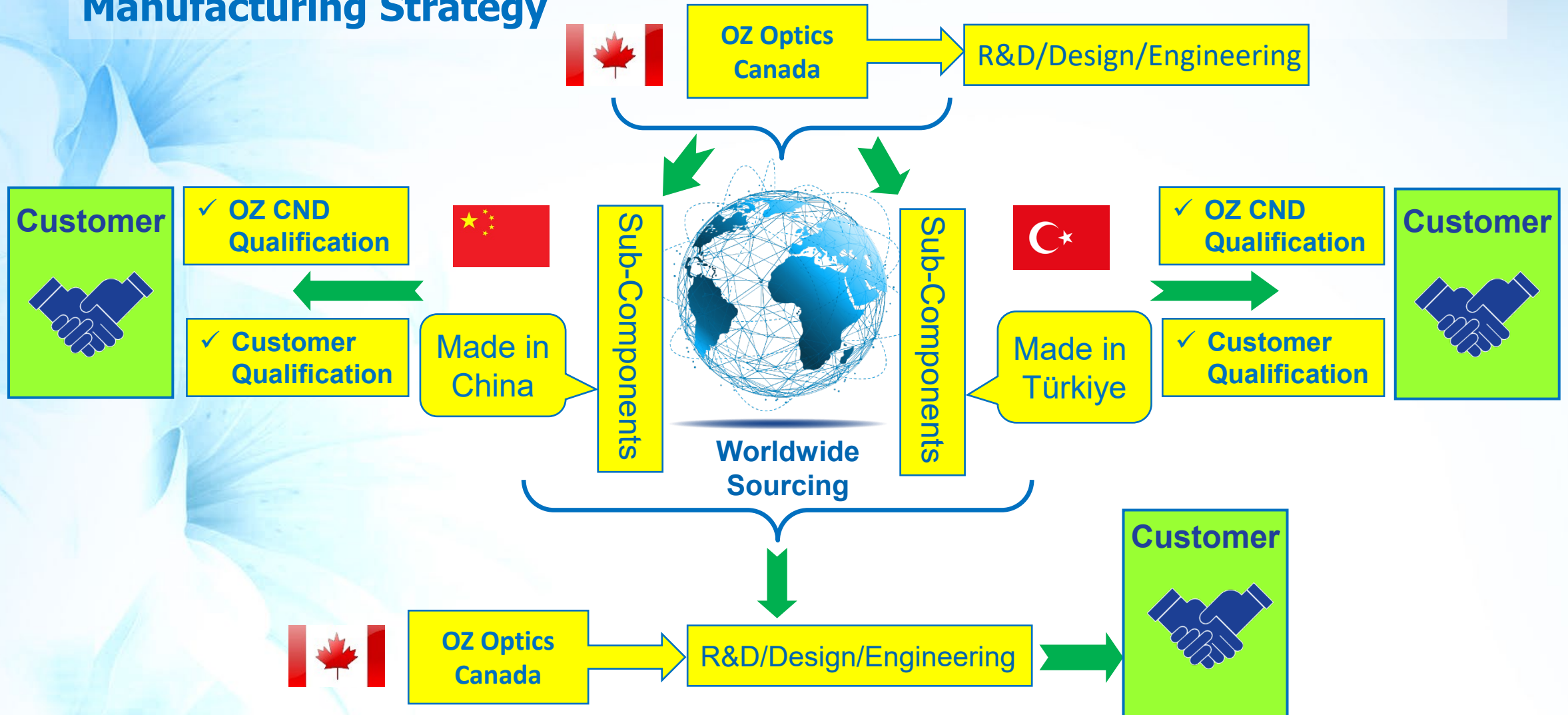


United States



Operation Strategy

Manufacturing Strategy



Marketing & Operation Strategy

Competitive Advantage

- Superior Technology Innovative Engineering
- Competitive Pricing
- Global Presence
- Extensive Experience in Fiber Optics Manufacturing
- Exceptional Quality and Service





Branch Network



OZ OPTICS CANADA (Headquarters)



OZ OPTICS TÜRKİYE (Türkiye Factory)



OZ OPTICS CHINA (Jiaxing Factory)



Branch Network



Facility - Ottawa Headquarters

- 60,000 sq ft. - Manufacturing and R&D Facilities
- 15,000 sq ft. - Admin, Sales and Marketing
- 15,000 sq ft. - Training and Fitness Facilities

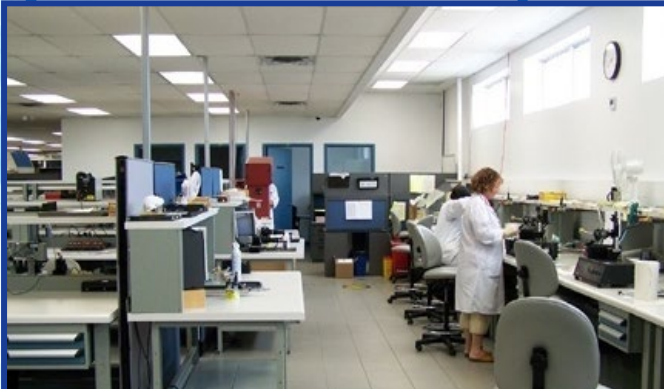




Branch Network



Facility - Ottawa Headquarters



Production Area



Training Centre Building



Meeting Room



Swimming Pool



Branch Network

Facility - Türkiye Factory (Izmir, Türkiye)

- Operational since 2000
- 33,000 sq ft. Manufacturing Facility
- Located in Free Trade Zone
- Low Tax Rates
- Sub Component Parts Manufacturing
- High Quality Labor
- AR Coating Machine & Clean Room onsite





Branch Network

Facility - China Factory (Jiaxing, China)

- Operational since June 2010
- Wholly Foreign Owned Enterprise
- Cost Effective Manufacturing
- High Quality Labor
- Supply Chain Integration





Branch Network



Facility - China Factory (Jiaxing, China)

- Located in Economic Development Zone
- 4000+ sq meters - Total Area
 - 500 sq meters – Admin, Sales and Marketing
 - 3500 sq meters – Manufacturing Area
 - ✓ 500 sq meter – Class 10,000 Clean Room
 - ✓ 500 sq meter – ESD Working Area



OZ Optics China

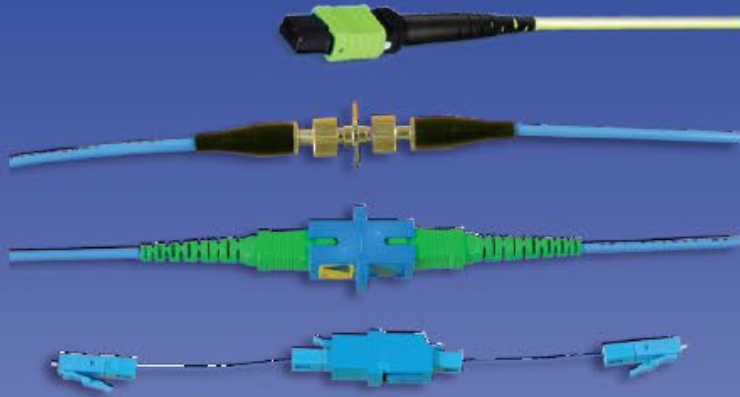


Zhejiang OZ Optics Technologies Co., Ltd

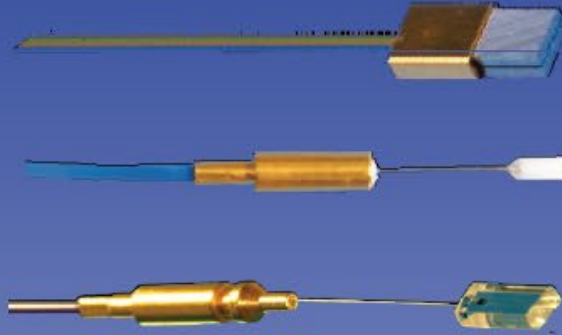
- Operational since June 2010
- Wholly Foreign Owned Enterprise
- NPI & Production Line Setup
- On-site Training by OZ CND
- Began Mass Production in September 2010
- Completed Main Facility Expansion in 2019



Fiber Optic Components-Short Form



**Polarization Maintaining
Patchcords**



**Hermetically Sealable
Patchcords**



**Polarization Maintaining
Splitters/Combiners**



**High Power
Laser to Fiber Delivery Systems**



Attenuators



**High Power/Temperature
Patchcords & Connectors**



Fiber Optic Components for AI, Optical Interconnects, and PIC Packaging solutions

OZ Optics' Components and Subsystems built with SM, PM and MM fibers
Designed to Meet Growing Need of AI, Optical Connectivity Solutions for Data Centers and OEM Applications:

- **2D Fiber Matrix Array (2D FMA) Assemblies**
- **Collimators and Focusers - Receptacle Style**
- **Directional Fiber Optic Power Monitors (Taps/Photodiodes)**
- **Electrically Driven Polarization Controller - Scrambler**
- **Fiber Optic Isolators**
- **Fiber Optic Circulators**
- **Fused Couplers - Fiber Optic**
- **High Speed Benchtop Polarization Controller - Scrambler**
- **High Speed Electro-Optics Polarization Controller - Scrambler**
- **High Speed Polarization Controller - Scrambler (OEM Version)**
- **Optical Fibers**
- **Polarization Maintaining Fiber Patchcords and Connectors**
- **Polarization Extinction Ratio Measurement Test Set for V-Groove Assemblies and PM Patchcords**
- **Polarizers - Fiber Optic**
- **Precision Fiber Optic Collimator/Focuser Array**
- **Single/Multichannel MEMs Variable Attenuators**
- **Tapered and lensed Fibers**
- **V-Groove Assemblies**
- **V-Groove Chips**



Polarization Maintaining Components

OZ Optics is the pioneer in PM Fiber Optic Components. We offer the widest range of PM components and we were the first company in the world to manufacture PM fiber components and test equipment, starting in 1985.

Features:

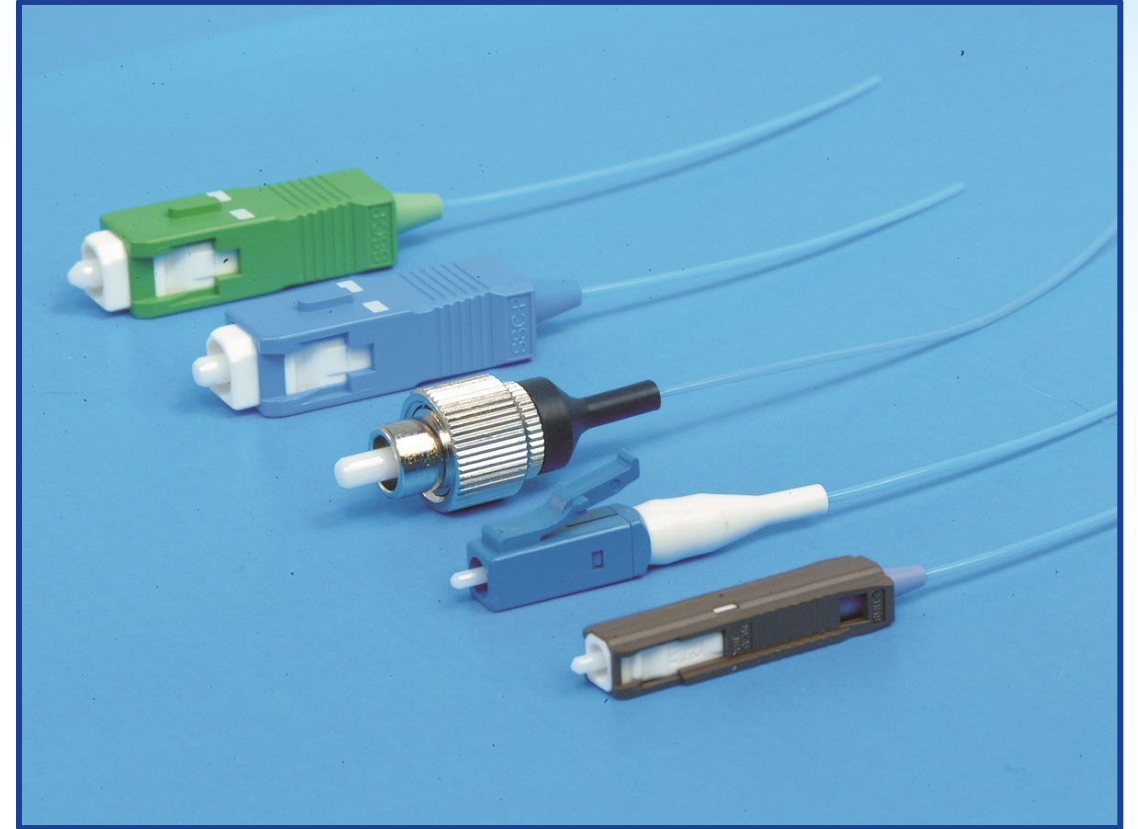
- **High Power Handling Capability**
(Over to 5 Watts at 1550 nm Tested to over 50 Watts CW at 1064 nm)
- **Better than 30 dB Extinction Ratios Can Be Achieved**
- **Wavelength Flattened Response for S, C & L Bands**
(1470 nm – 1620 nm)
- **Complete Support for Non-Telecom Wavelengths and Applications**
(375 – 2100 nm)



Polarization Maintaining Patchcords

DTS0071: Polarization Maintaining Fiber Patchcords and Connectors

- Up to 30 dB Polarization Extinction Ratios
- $<0.3\text{dB}$ Insertion Loss, Up to 60dB Backreflection
- FC/SPC, FC/UPC, FC/APC, SC, ST, LC, MU, E2000, DMI and Custom Connectors





12 & 16 channels MPO/MTP Polarization Maintaining Fiber Assemblies

DTS0071: Polarization Maintaining Fiber Patchcords and Connectors

- High precision PM fiber alignment techniques the polarization axis (stress rods) are aligned vertical, parallel, alternating axis or at custom angles to the base of the MPO connector to $\pm 3^\circ$
- Delivering a minimum Polarization Extinction Ratio (PER) of ≥ 20 dB and a typical PER of ≥ 25 dB for telecom C&L bands
- The end face of the ferrule and connector assemblies can be PC or APC polished
- 12 & 16 fiber MPO/MTP® PM fiber assemblies are offered with different Male, Female, Key Up and Key Down configurations.
- Fiber assemblies with standard & Customs fibers and wavelengths are available



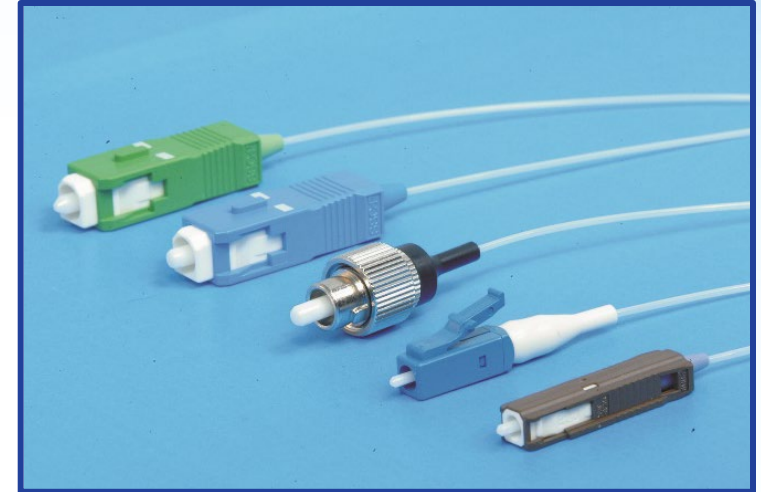
DTS0071 – Polarization Maintaining Fiber Patchcords and Connectors



Singlemode or Multimode Fiber Optic Patchcords

DTS0130: Singlemode or Multimode Fiber Optic Patchcords

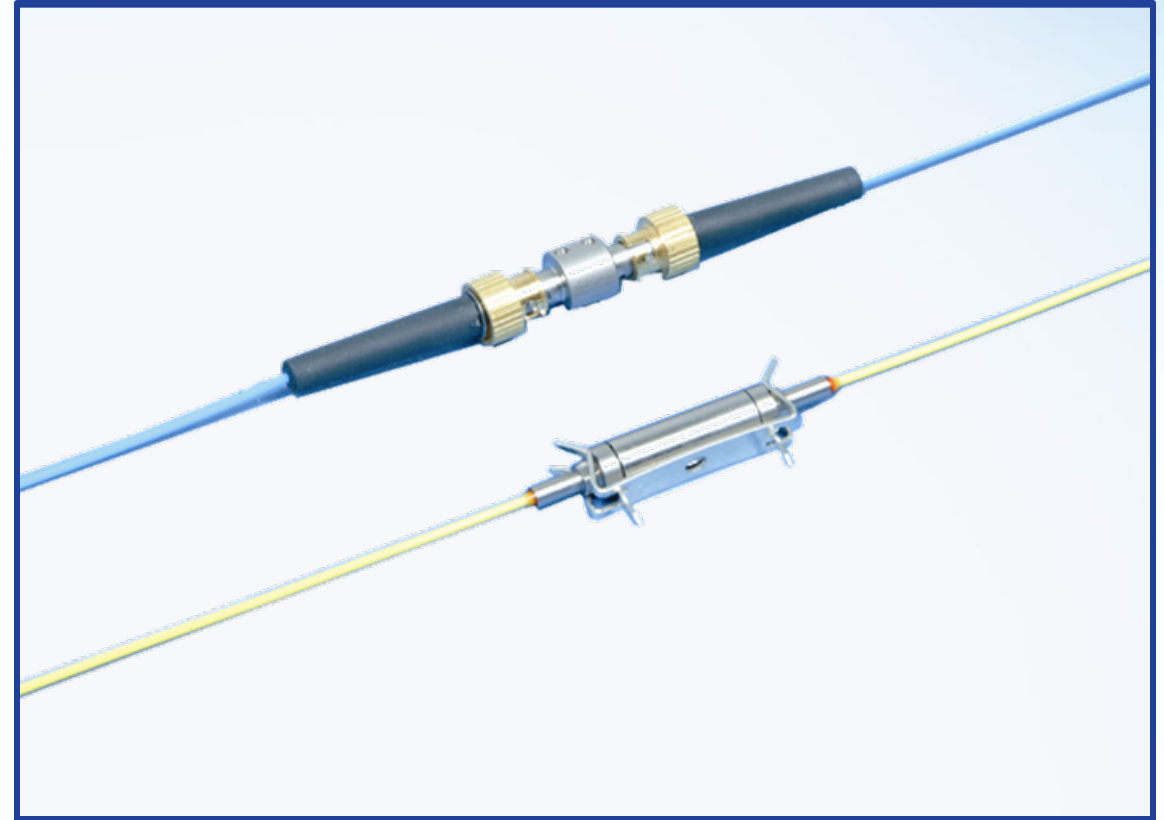
- Low insertion loss < 0.2 dB
- Excellent repeatability
- FC/PC, SC, ST, LC, MU, E2000 termination available
- Custom ferrule termination available
- Designed to meet Telcordia specification
- Large selection of cabling
- Operating wavelengths from 200 nm to 2000 nm
- Two micron to 1500 micron diameter core sizes available



Miniature PM Connectors and Patchcords



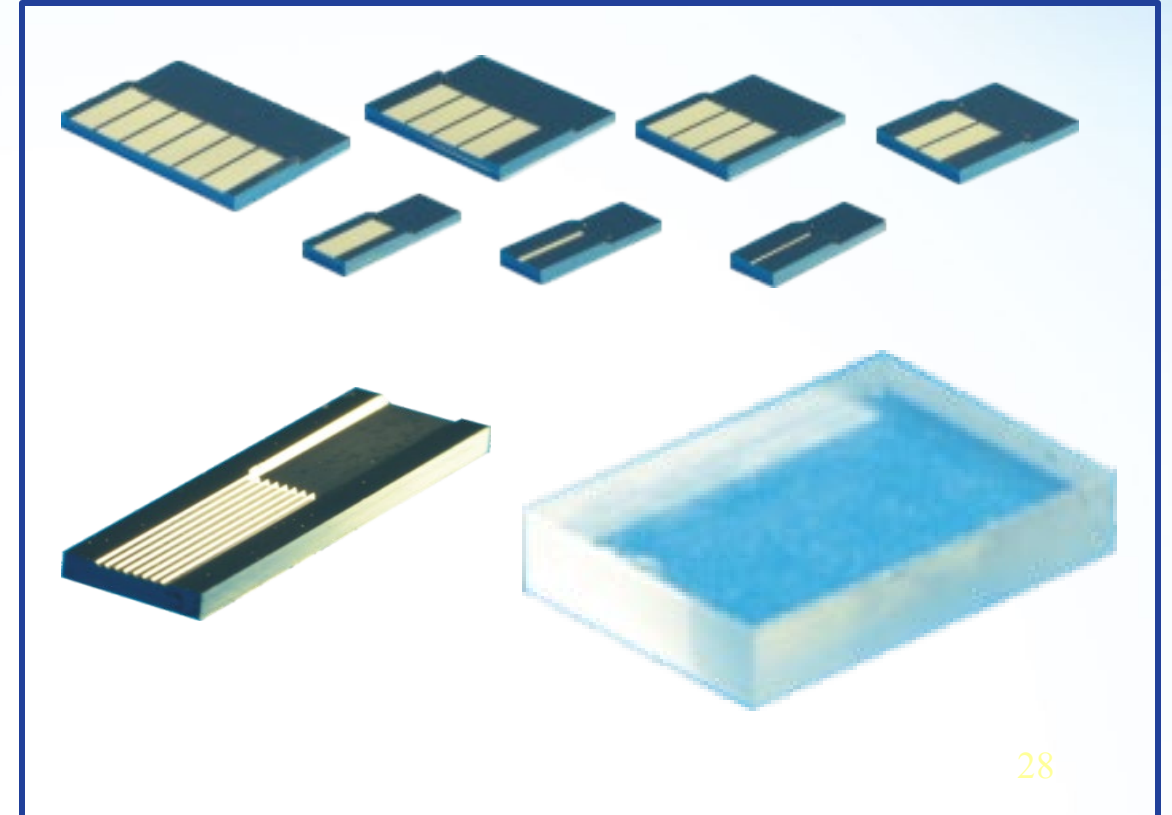
- **PC Board Mountable**
- **Small Form Factor Allows Dense Packing in Small Spaces**
- **Up to 30 dB Polarization Extinction Ratios**
- **< 0.3 dB Insertion Loss, up to 60 dB Backreflection**



V-Groove Substrates

DTS0077: V-Groove Chips

- Up to 96 Fiber Substrates
- Better than 0.5 Micron Accuracy
- Use with Either UV or Thermal Epoxies
- Material: Silicon, Quartz, Pyrex, Tempax, etc.



28





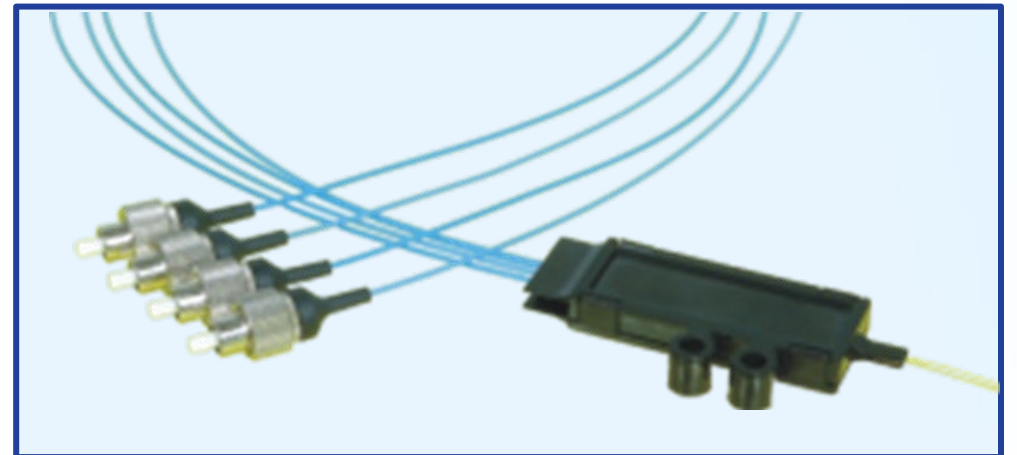
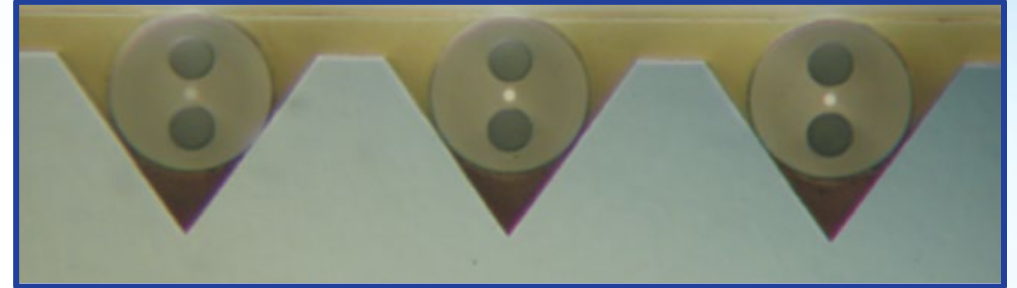
Fiber Pigtailed V-Groove Arrays

DTS0083: V-Groove Assemblies

- Up to 96 Fibers in a Single Array
- 127, 250, 400, 500 Micron & Custom Spacing
- SMF, MMF & PMF

For PM:

- Over 20 dB Extinction Ratios
- Rods Aligned to Within 0.5 Degrees



DTS0083 V-Groove Assemblies

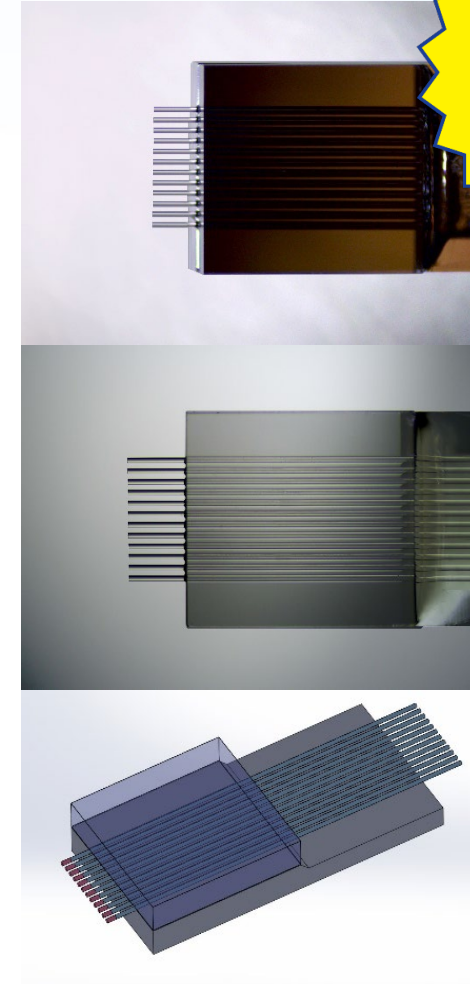


NEW

V-Groove Assemblies with Tapered, Lensed, Polished, Cleaved and High Power Endcapped Fibers for Optical Connectivity and Fiber Laser Solutions

P/N: VGA-N-S-A-D-VL-VW-VT-F-W-a/b-X-JD-L-B

- **High Fiber Density:** Up to 96 fibers in a V-Groove array on Silicon and Pyrex substrates
- **Versatile Fiber Options:** singlemode, multimode, or polarization-maintaining fibers with fiber end treatment options such as tapered, lensed, polished, cleaved and endcapped for high power applications
- **Superior Polarization Performance:** High polarization extinction ratios of up to 30dB



DTS0083 V-Groove Assemblies



Polarization Measurement Systems for V-Groove Arrays



- Up to 96 Fibers in a Single Array
- 127, 250, 400, 500 Micron & Custom Spacings
- SMF, MMF & PMF



DTS0068 PER Measurement Test Set for V-Groove Assemblies and PM Patch-cords



Polarization Measurement System for V-Groove PM Fiber Assemblies



- Automatically Positions Fiber for Optimum Power
- Measures Angles to within 1°
- Measures up to 40 dB ER



DTS0068 PER Measurement Test Set for V-Groove Assemblies and PM Patch-cords



Polarization Extinction Ratio Meters

DTS0067: Polarization Extinction Ratio Meters

- A rotating polarizer measures the extinction ratio and the orientation of the transmission axis W.R.T the key on the connector
- Measure up to 40 dB Extinction Ratio
- 0.3 Degree Angle Resolution
- Up to 2 Watts with Removable Fix Neutral Density Filters
- Broadband Wavelength: 400 – 2050 nm
- USB or RS-232 Interfaces Available



DTS0067 – Polarization Extinction Ratio Meter



Fiber Optic Polarized Sources

- As Good as 40 dB Extinction Ratio
- Pigtail & Receptacle Versions
- 635 to 2050 nm Wavelengths
- Motorized Polarization Rotator Available as an Option



DTS0073 – Polarized Fiber Optic Source

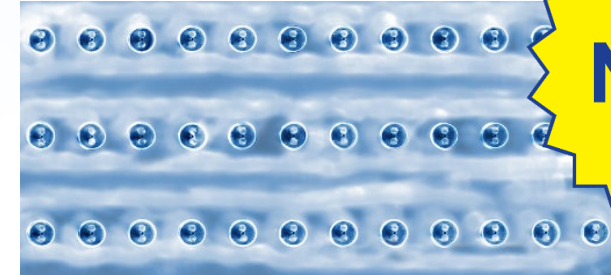


2D Fiber Matrix Array (2D FMA) Assemblies for Data Transmission and Imaging

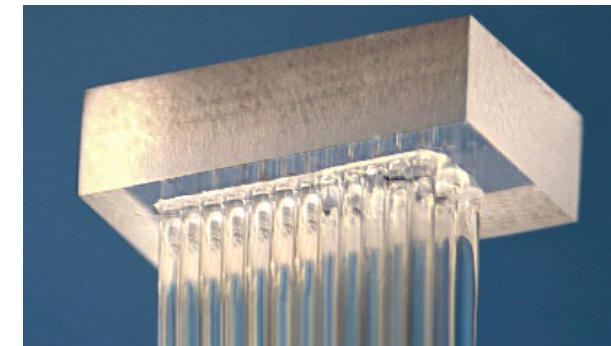
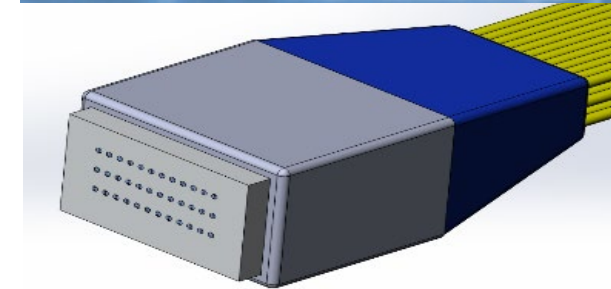


Features:

- Up to 12x12 Fiber Matrix arrays or other combinations based on the availability of substrate
- Singlemode, multimode or polarization maintaining fibers
- High polarization extinction ratios up to 30 dB available
- individual fibers
- Assemblies with bare fiber or 900µm jacketing, and with or without connectors



NEW



DTS0205 - 2D Fiber Matrix Array (2DFMA) Assemblies

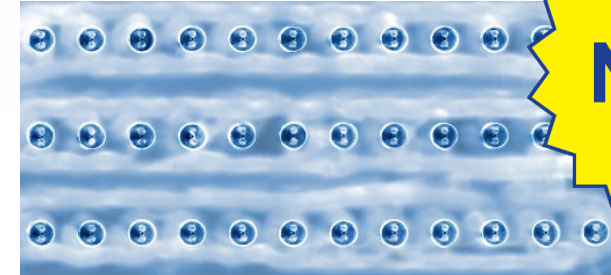


2D Fiber Matrix Array (2D FMA) Assemblies for Data Transmission and Imaging

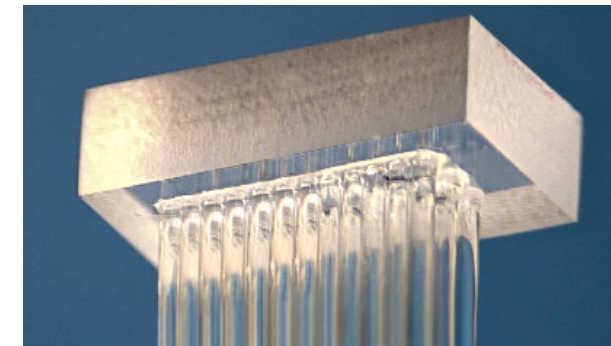
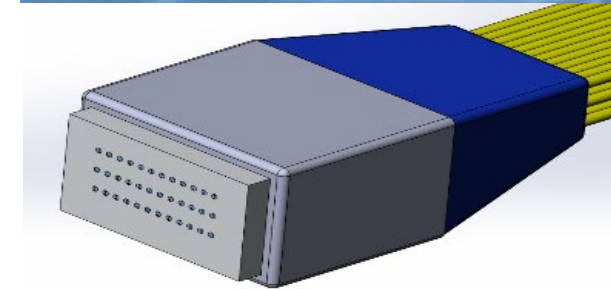


Features Cont'd:

- 900 μm jacketed breakouts available, up to 2 meters in length
- Custom configurations possible for OEM applications
- Designed to meet Telcordia specifications (GR 1221-core, GR 326-core)
- Pitch in X direction: 250 μm , 500 μm or custom
- Pitch in Y direction: 500, 750, 1000 μm or custom



NEW



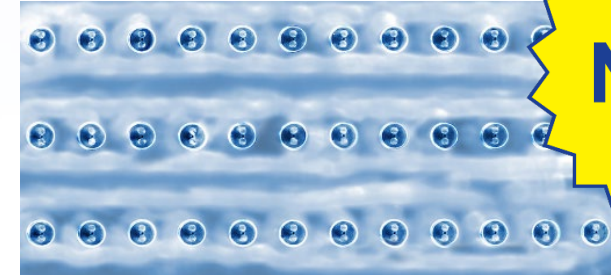
DTS0205 - 2D Fiber Matrix Array (2DFMA) Assemblies

2D Fiber Matrix Array (2D FMA) Assemblies for Data Transmission and Imaging

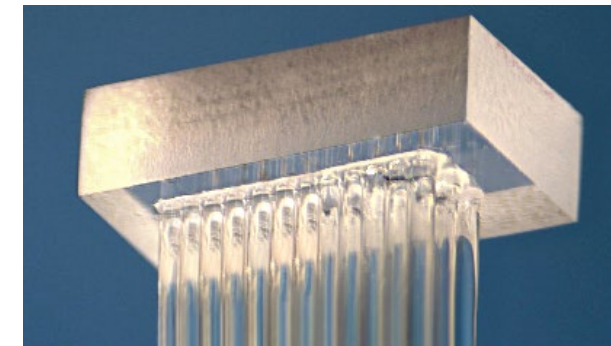
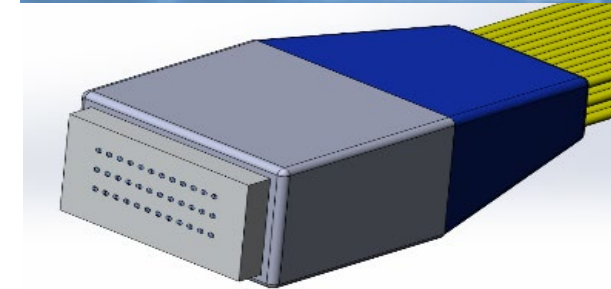


Applications:

- Optical Switching and Cross-Connection
- Biomedical Imaging
- Optical Sensors
- Switches
- Interferometry
- Integrated Components



NEW



DTS0205 - 2D Fiber Matrix Array (2DFMA) Assemblies



Electrically Driven Polarization Controllers

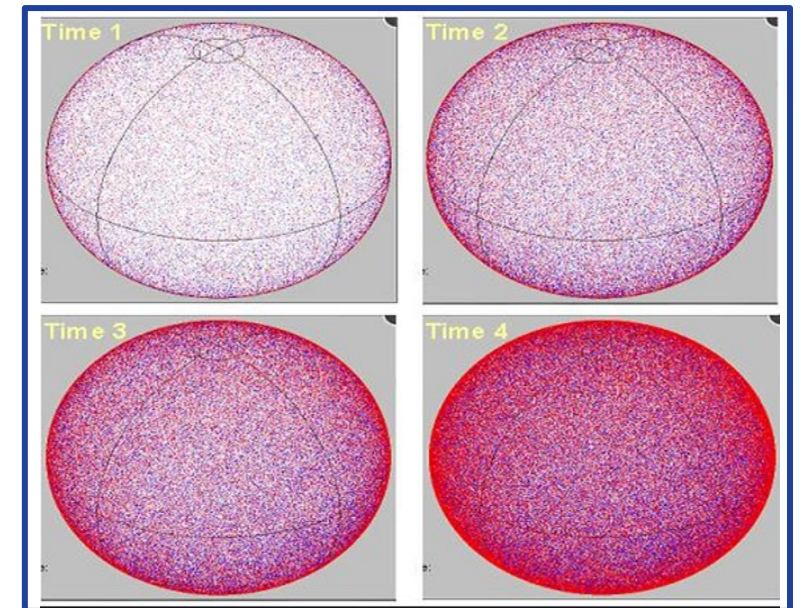
- Continuous Control of Polarization using novel mechanical fiber squeezing
- Controlled by 3 or 4 input voltages over $\pm 5V$ for scrambling or scrambling & continuous controlling
- PMD Compensation in combination with Diff. Delay line to slowdown faster polarization & signal recombination
- No Insertion Losses or Return Losses as in-line
- > 100 Hz Response Speed
- Low Activation Loss



High-Speed Polarization Controller-Scrambler Optical Module (OEM)



- Continuous Control of Polarization
- Negligible Insertion Losses, Return Losses or PDL
- Up to 30 kHz Response Speed
- Inline and Low Activation Loss
- Compact and PCB Mountable

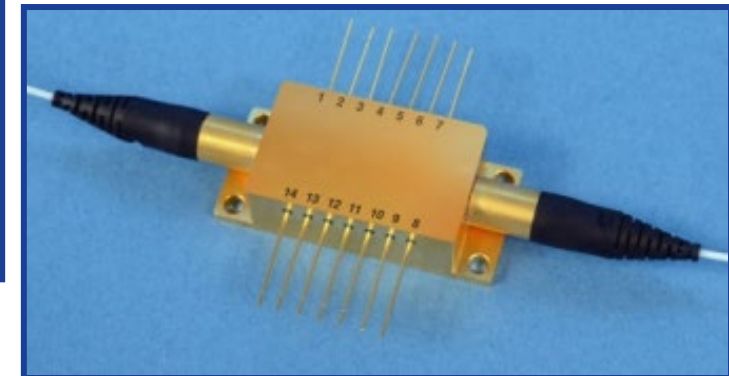
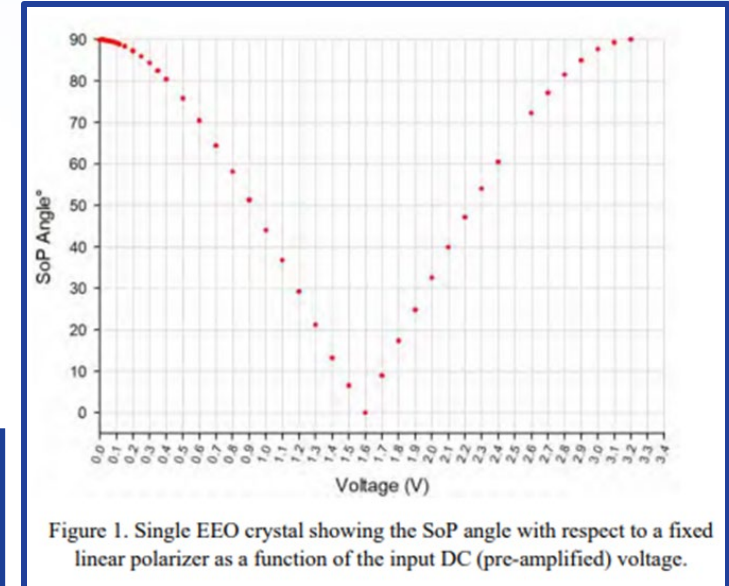




High-Speed Electro-Optics Polarization Controller-Scrambler



- Rapid Response Time ($< 10 \mu\text{s}$) and Linear Response
- Based on High Speed Free Space Solid State E-O Crystals Design
- 2 to 4 crystals changes/manipulate/controls O/P Polarization-3 for scrambling & 4 for scrambling/continuous controlling
- Long Operating Lifetime
- Low Activation Loss
- Compact and PCB Mountable

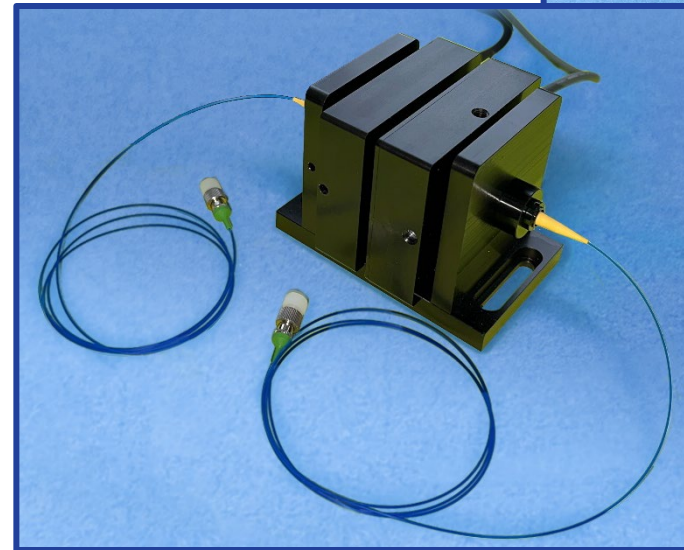




High Resolution Motorized Polarization Controller



- Precision rotation of half and quarter wave plates and polarizers with Built-in Encoder
- Compact, Plug-and-Play Device with Touch Screen and GUIs
- 0.1° Repeatability

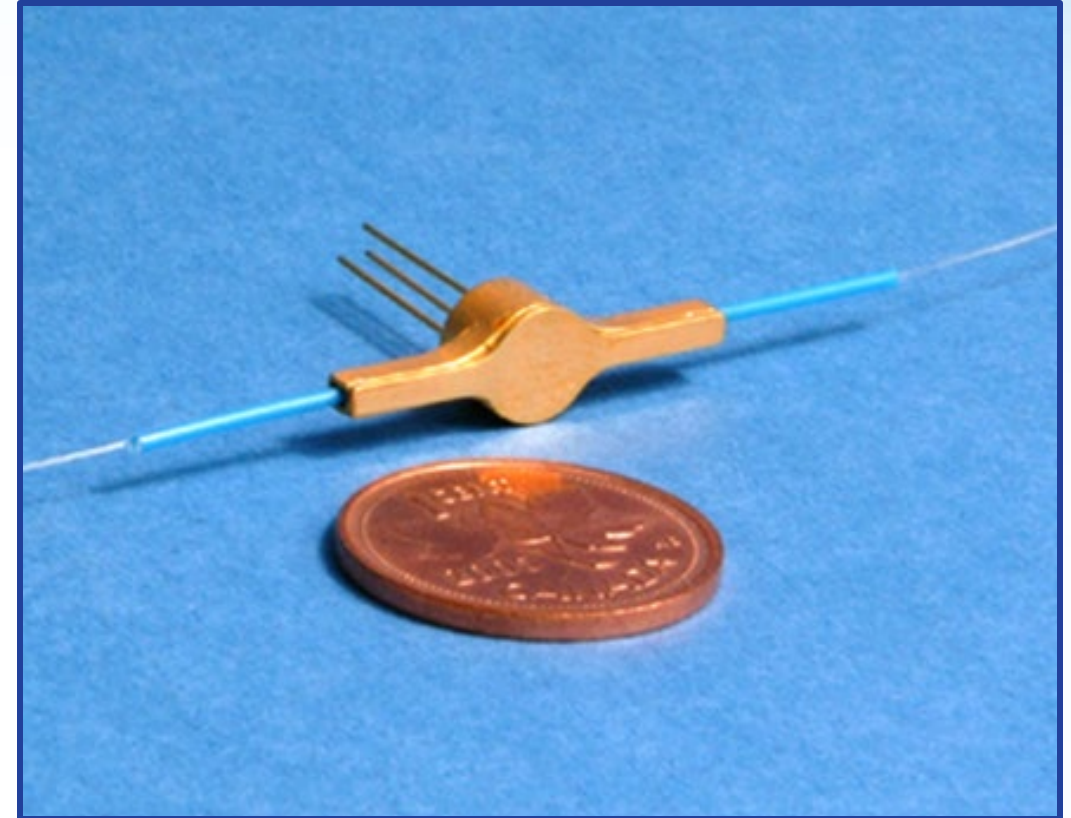


DTS0191 - High Resolution Motorized Polarization Controller

PM Fiber Power Monitors/Tap Couplers



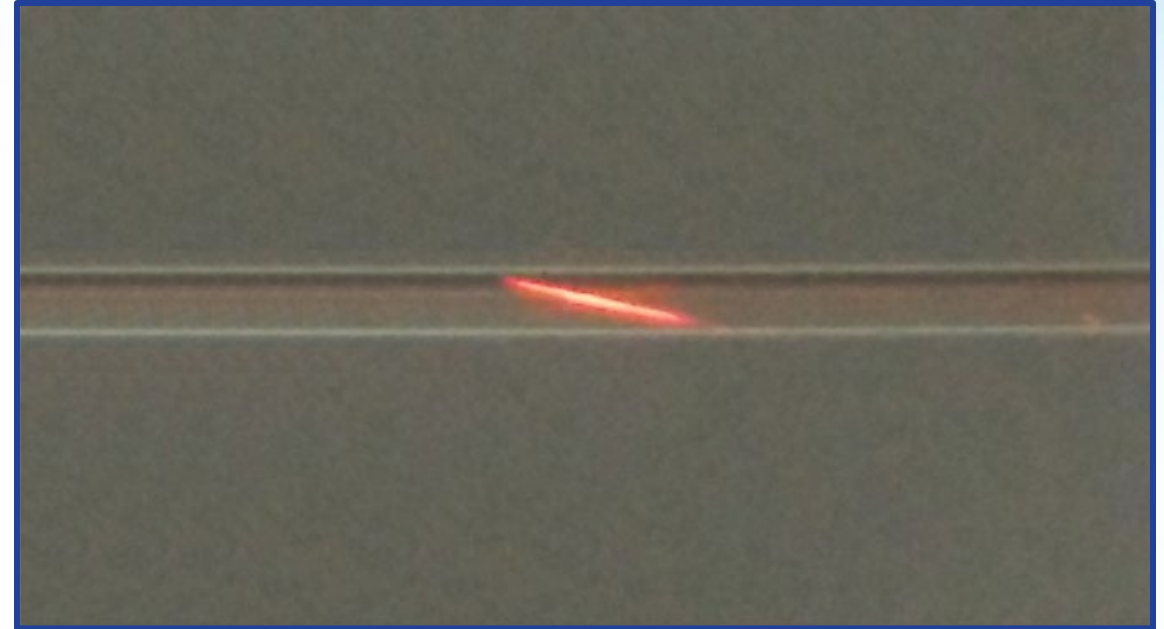
- **Wide Wavelength Range, up to 2 Watts Power Handling**
- **Single Channel**
- **Digital Display Version Used to Monitor and Measure Power Simultaneously**
- **Allows Optical Monitoring Without Disconnecting**
- **Can Be Locally or Remotely Accessed**
- **Ideal for FTTH Networks**



Inline Optical Taps and Monitors



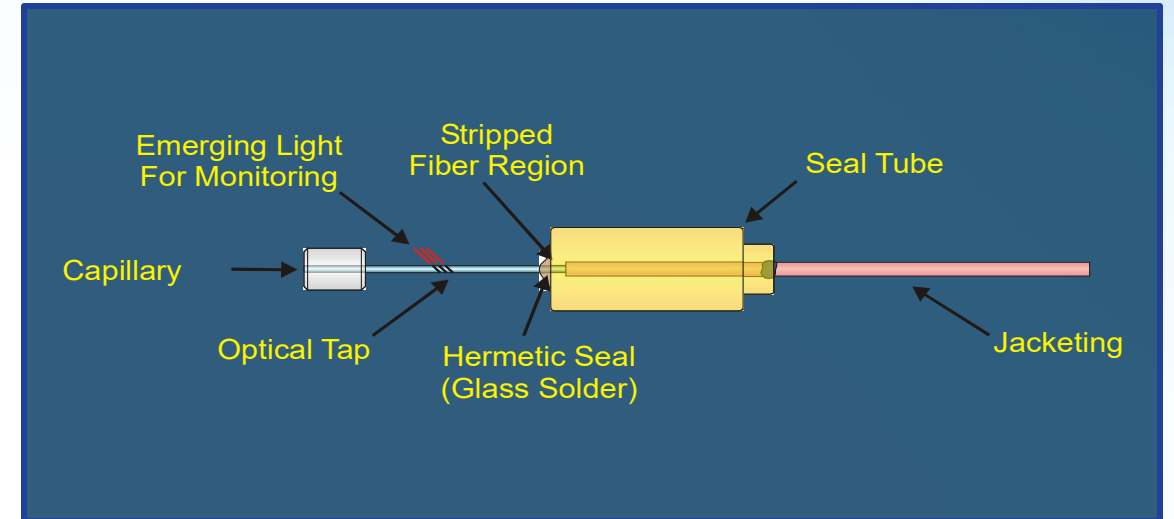
- No Interruptions to the Optical Path
- Can Be Integrated Into Assemblies and Packages
- Low Insertion Losses, Return Losses and PDL



DTS0042 - Directional Fiber Optic Power Monitors (Taps/Photodiodes)

Inline Optical Taps and Monitors

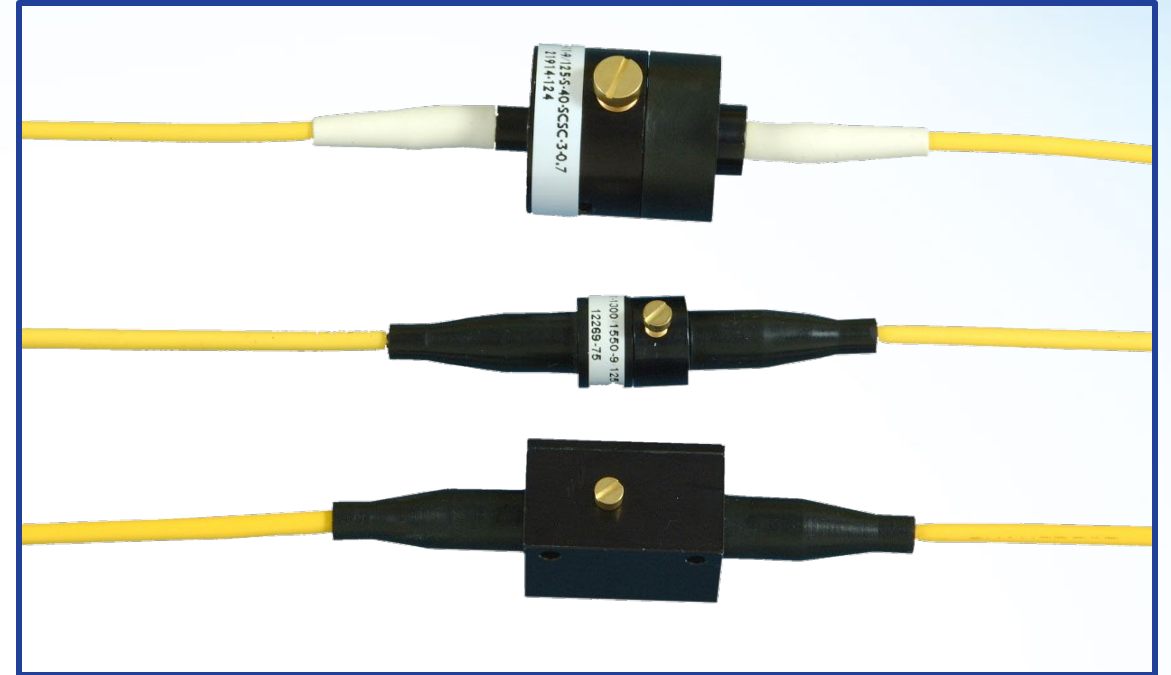
- No Interruptions to the Optical Path
- Can Be Integrated Into Assemblies and Packages
- Low Insertion Losses, Return Losses and PDL





PM Fiber Variable Attenuator

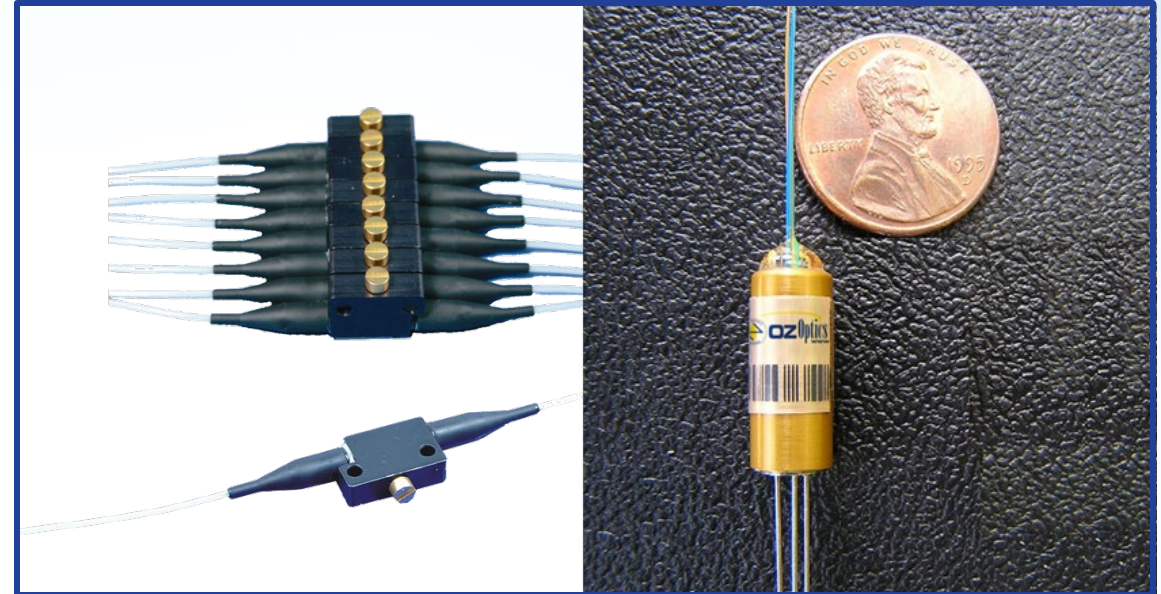
- Up to 30 dB Extinction Ratios, Up to 10 Watts CW Power
- 0.6 dB to 80 dB Attenuation, -40, -50, -60 dB Backreflection
- Meets Telcordia Specifications
- MEMS Based Attenuators Available





PM Fiber Variable Attenuator

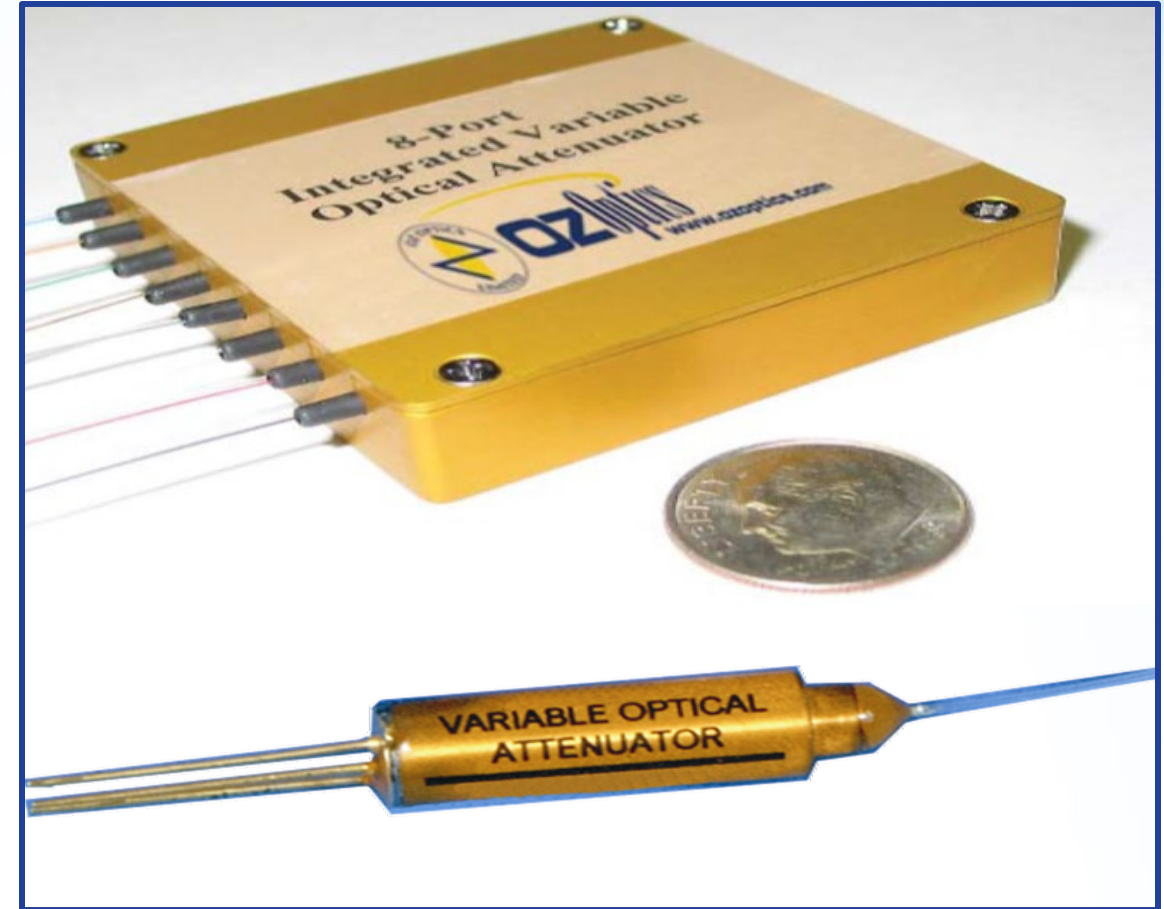
- Up to 30 dB Extinction Ratios, Up to 10 Watts CW Power
- 0.6 dB to 80 dB Attenuation, -40, -50, -60 dB Backreflection
- Meets Telcordia Specifications
- MEMS Based Attenuators Available



MEMS Based Variable Attenuators



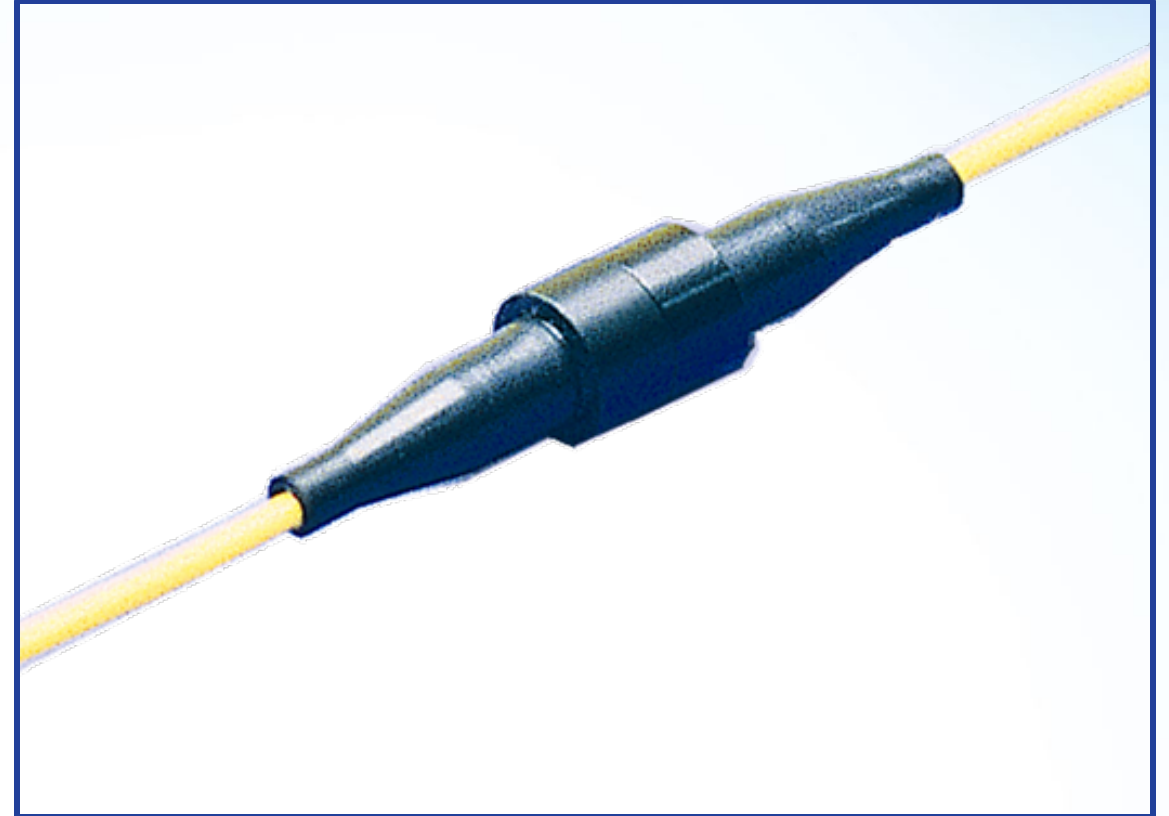
- 0.8 dB – 40 dB Attenuation Range, Low Cost
- Available from 488 nm – 2000 nm wavelengths
- Up to 24 Multi Channel Version is available
- Power Monitors at Input and/or Output End
- SM and PM fiber versions.





Fiber Pigtailed Polarizers

- Up to 30 dB Extinction Ratios
- Based on Free Space Optics
- 0.6 dB Insertion Loss, Low Cost, Compact
- -40, -50, -60 dB Backreflection Levels
- 400 – 2050 nm wavelengths





All-Fiber Polarizers

- **> 35 dB (Up to 50 dB) Extinction Ratios Possible**
- **< 0.5 dB Insertion Loss Achievable**
- **Low cost and compact size (3 mm OD housing)**
- **Broad operating wavelength**
- **-70 dB Backreflection Levels**



DTS0018 - Polarizers- Fiber Optic

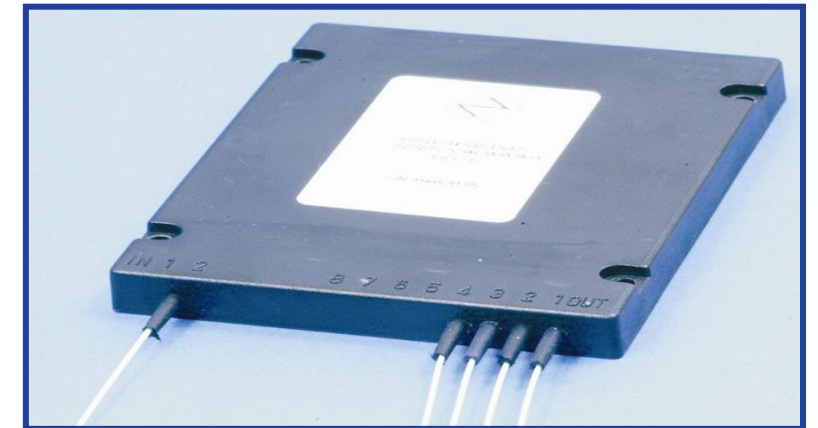


Fused Fiber Splitters

DTS0033: Fused Couplers – Fiber Optic

DTS0092: Polarization Maintaining Fused Fiber Couplers/Splitters

- Operating wavelengths available from 488 nm to 2000 nm
- Multimode, single mode and PM fiber versions
- Wavelength flattened versions
- Low loss (typically less than 0.3 dB)
- Wavelength dependence typically ± 0.25 dB over operating range
- Low PDR, typically < 0.1 dB
- Miniature and ruggedized package options



DTS0033 – Fused Couplers – Fiber Optic

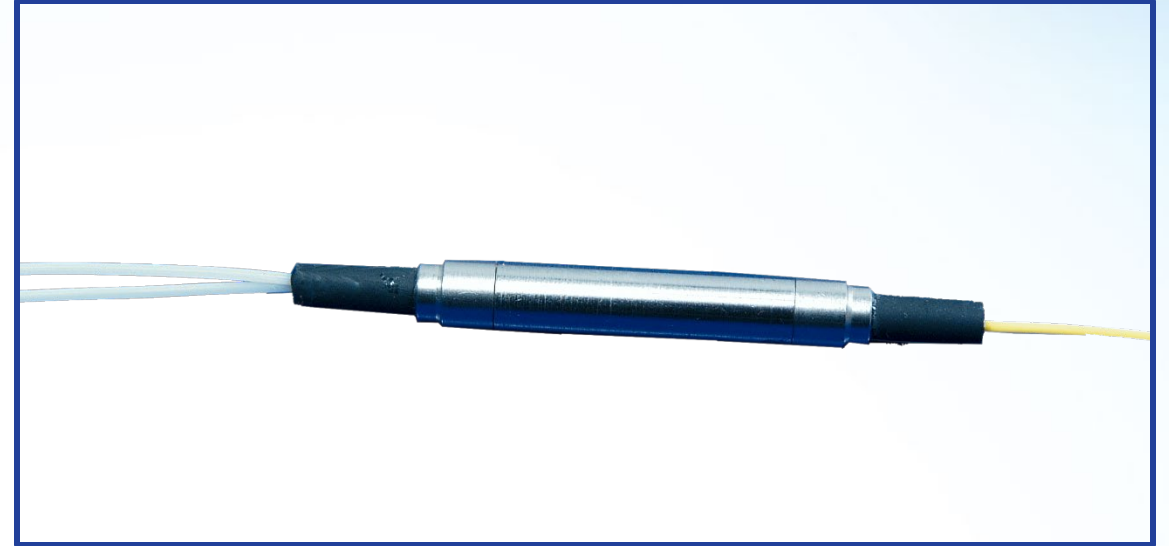


DTS0092 – Polarization Maintaining Fused Fiber Couplers/Splitter



Polarization Maintaining Splitters

- Splits Polarized Light into 2 PM or SM Fibers
- 0.6 dB IL, -40, -50, -60 dB Backreflection
- 1x2 & 2x2 Versions Available
- 350 – 2050 nm Versions





Polarizing Splitters / Combiners

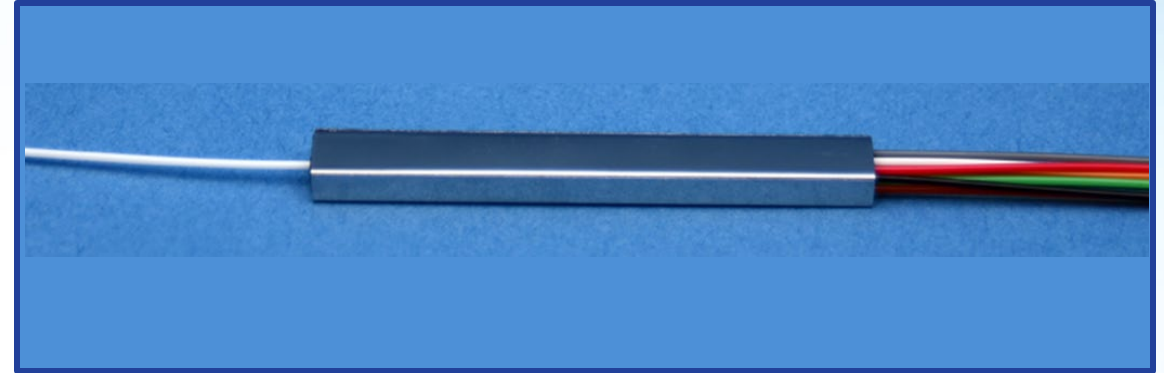
- Splits Light into Two Polarizations
- 0.6 dB IL, -40, -50, -60 dB Backreflection
- 1x2 & 2x2 Versions Available



PM Planar Light Circuit (PLC) Splitters



- 1x2 to 1x32 Splitter Configurations
- C, L and S Band Operation
- Miniature Package Size





PM Fiber Optic Circulators

- 0.7 dB Typical Insertion Loss
- 532 – 1550 nm Wavelength Versions
- Up to 30 dB Extinction Ratios



Fiber Pigtailed Isolators

DTS0016: Fiber Optic Isolators

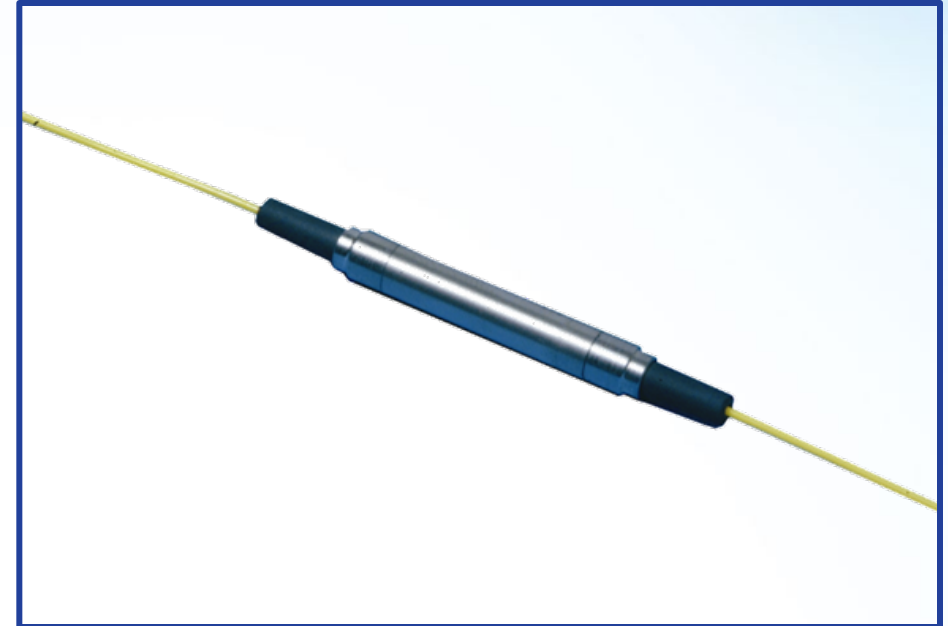
- ≤ 0.8 dB IL, as good as 60 dB isolation
- -40 dB, -50 dB, -60 dB Back reflection SMF & PMF
- 532 nm to 2050 nm wavelengths





Fiber Pigtailed Isolators

- **< 0.8 dB IL, as Much as 60 dB Isolation**
- **-40 dB, -50 dB, -60 dB Backreflection**
- **532 nm to 2050 nm Wavelengths**
- **Singlemode or PM Fiber Versions**
- **Polarizing or Polarization Independent Versions**





Adjustable Fiber Connectors

DTS0047: Laser to fiber Coupler with Adjustable Focus

HPUC-2,A3A-400/700-P-3.5AC-1 and QPMJ-A3A,3S-488-3.5/125-3AS-2-1

- Use for Adjustable Focusers & Couplers
- Distance between source and lens adjustable for wavelength and power adjustments
- FC/PC, FC/APC and SMA 905 Compatible
- SMF, MMF & PMF Versions



Laser to Fiber Delivery System Questionnaire



DTS0047 - Laser to Fiber Coupler with Adjustable Focus

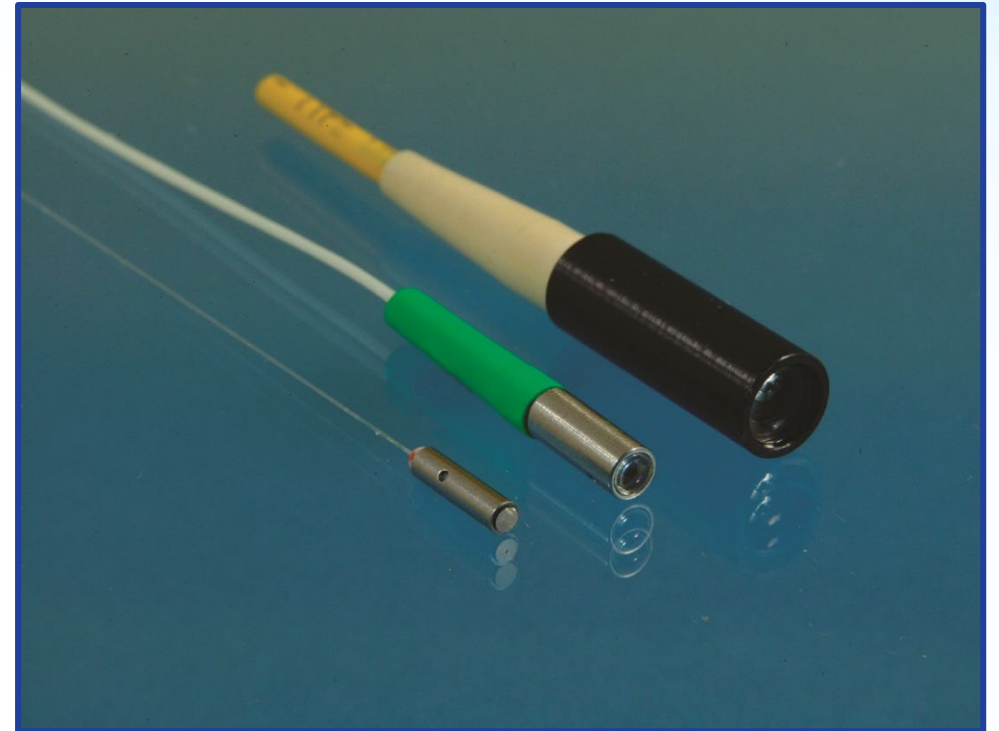


Pigtail Style Collimators / Focusers

DTS0060: Collimators / Focusers – Pigtail Style

LPC-03-1550-8/125-P-0.44-2AS-40-3A-3-2 and LPF-01-1550-8/125-P-3-19.4-5AS-60-3A-3-1

- As Small as 2 μm Waist Diameter
- Up to -60 dB Back Reflection
SMF, PMF; 35 dB MMF
- 240 nm – 2200 nm Wavelengths Available



DTS0060 - Collimators and Focusers – Pigtail Style

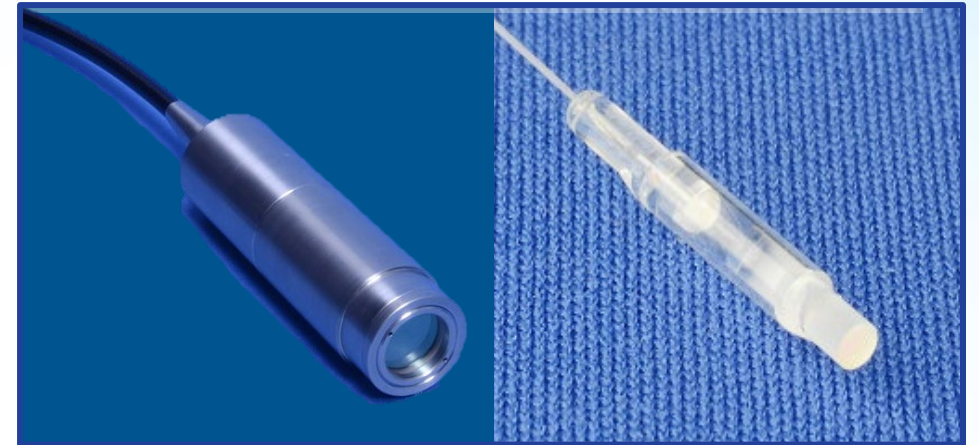


Pigtail Style Collimators / Focusers

DTS0157: Fused Fiber Collimator

DTS0145: High Power Collimators and Focusers – Pigtail Style

- **Standard Collimated Beam Diameter:**
0.2 mm to 3.5 mm
- **Standard Sizes:**
1.6 mm, 2.5 mm, 4 mm, 8 mm, 11 mm,
12 mm & 25.4 mm Diameter Housing
- **Up to 1 kW Power**



DTS0157 – Fused Fiber Collimator



DTS0145 – High Power Collimators and Focusers – Pigtail Style

Receptacle Style Collimator / Focusers



DTS0094: Collimators and Focusers – Receptacle Style

HPUCO-23-400/700-P-50AC

- 0.2 mm to > 15 mm Beam Diameters
- 240 nm to 2200 nm Wavelengths
- Achromatic Collimators Available



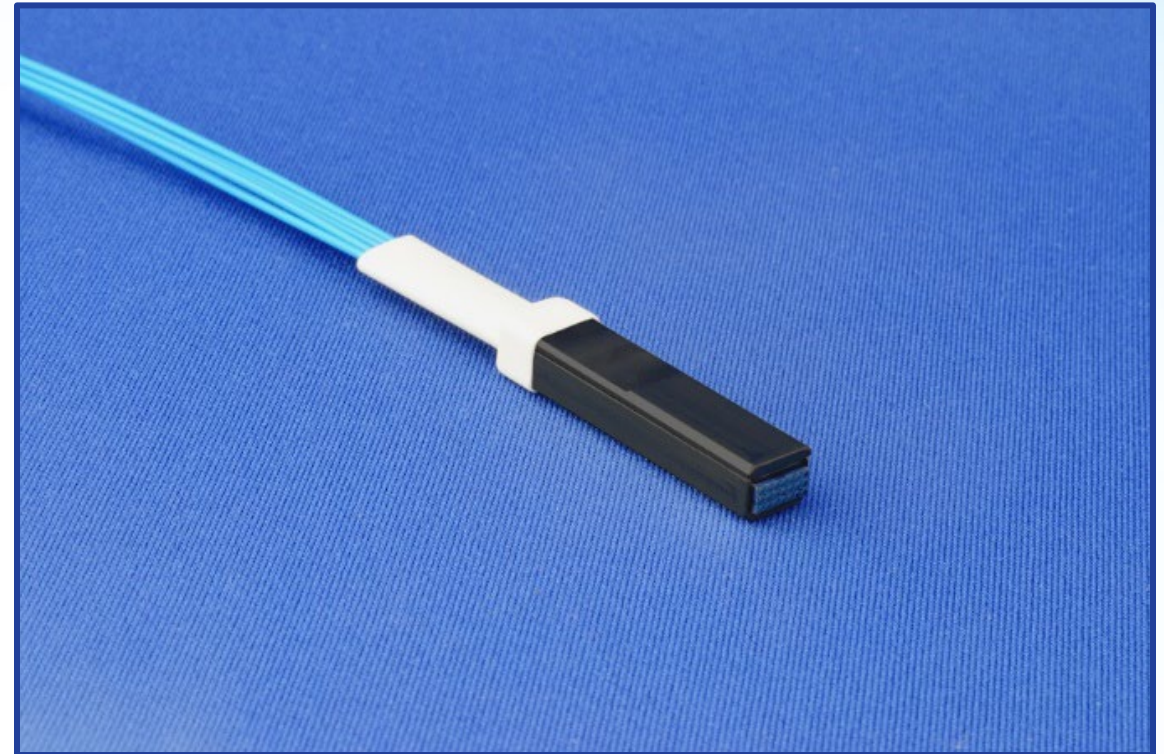
DTS0094 – Collimators and Focusers – Receptacle Style



Precision Fiber Optic Collimator/Focuser Array

DTS0156: Precision Fiber Optic Collimator/Focuser Array

- High density, small footprint
- Built using precision V-Groove with a single element lens arrays
- SM and PM fiber based for PIC, PLC, DWDM, MEMs and AWG Devices
- Evenly spaced linear configuration
- Generate a precise array of collimated/focused spots



DTS0156 – Precision Fiber Optic Collimator/Focuser Array



Bare Fiber Adaptors

DTS0003: Bare Fiber Adaptors

BARE-03-82-M

- Used to Hold Bare Fibers
- FC, SC, ST, SMA Connectors Available with Spring Loaded and Magnetic Clip Versions
- Reusable, Inexpensive



DTS0003 – Bare Fiber Adaptors

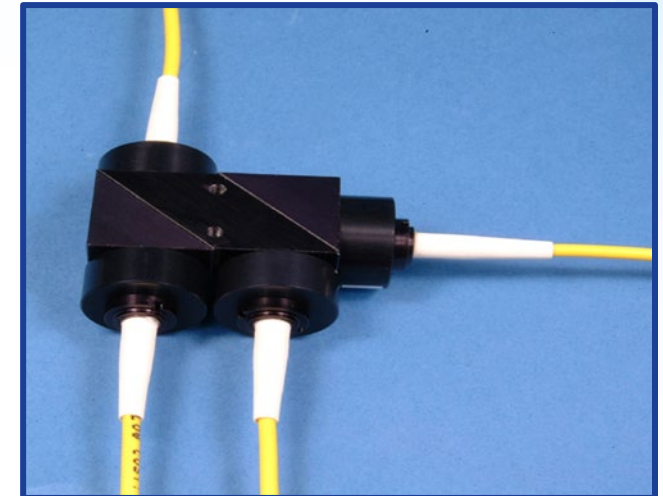


Wavelength Division Multiplexers

DTS0089: Wavelength Division Multiplexers

WDM-13P-1111-405/532/650-3.5/125-SSSS-40-3A3A3A3A-3-1

- < 0.8 dB Insertion Losses, 65 dB Isolation
- Up to 2 Watt Power Handling
- -40 dB, -50 dB, -60 dB Back Reflection
- Combines red/green/blue visible wavelengths
- Two, three, and four wavelength versions
- MM, SM and PM Fiber versions



DTS0089 – Wavelength Division Multiplexers

Tapered/Lensed Fibers

DTS0080: Tapered and Lensed Fibers

- As Small As 2 Micron Spot Sizes
- SM & PM(tapered) and MM fibers (polished) & laser shaping with AR option for 10% transmission increase
- Circular And Oval Spot Profiles
- Custom OEM Designs, Metalized Versions

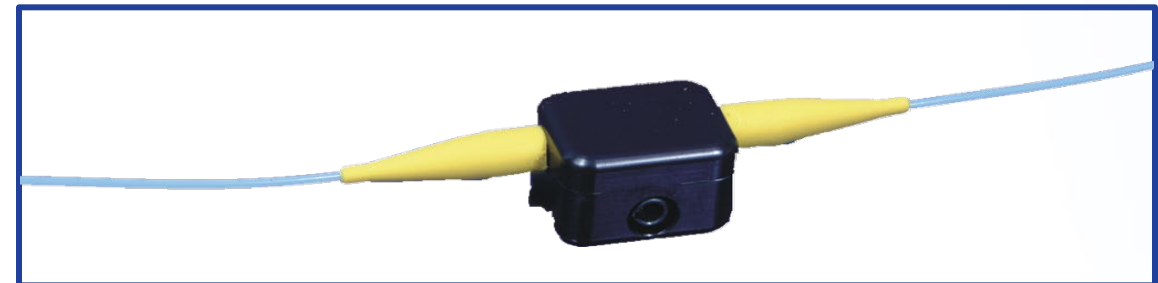




Inline Optical Power Meter / Monitor

DTS0052: Digital Directional Inline Optical Power Monitor / Meter

- Tapped light channels into built in PD
- Calibrated Power Meter
- Wide Wavelength Range, up to 2 Watts Power
- SM and PM Fiber Versions



DTS0052 – Digital Directional Inline Optical Power Monitor / Meter

Thank You for Choosing OZ Optics

Please Contact Our Sales Department:

Tel: 613-831-0981 ext. 3370

Toll Free: 1-800-361-5415

Email: sales@ozoptics.com

