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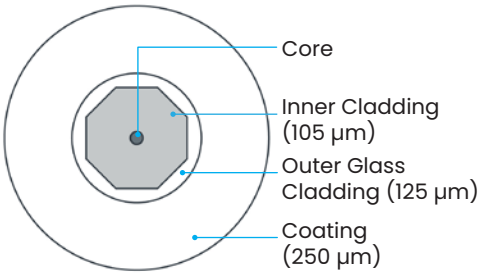
Erbium-Ytterbium Optical Fibers

ErYb 7/125 PM Optical Fiber
ErYb 7/125 Glass Clad Optical Fiber
ErYb 8/128 Optical Fiber
ErYb 10/128 P Dual Optical Fiber

ErYb 7/125 Glass Cladding Optical Fiber

P/N: 88773



Features

- Good beam characteristics
- High efficiency
- Compact footprint
- Superior reliability and quality

Typical Applications

- Optical amplifiers operating in 1550 nm range, multi-Watt output power
- CATV amplifiers
- Amplifiers for free space communication
- LIDAR

Product Specifications	
Product Description	**ErYb 7/125 Glass Cladding Optical Fiber**
Optical Characteristics	
Operating Wavelength	1550 nm
Core Properties	
Numerical Aperture	> 0.20
Nominal Absorption @ 1535 nm	50 dB/m
Mode Field Diameter @ 1550 nm	7 µm
Cladding Properties	
Numerical Aperture	> 0.22
Absorption @ 915 nm	> 1.6 dB/m
Physical Characteristics	
Inner Cladding Diameter	105 µm
Circular Cladding Diameter	125 µm
Coating Diameter	250 µm
Mechanical and Environmental	
Tensile Proof Test	0.69 Gpa (100 kpsi)
Other Information	
Order by Part Number	**88773**
Product Description	**ErYb 7/125 Glass Cladding Optical Fiber**
Regulatory Compliance	REACH and RoHS Compliant
Quality Certification	ISO 9001 Certified

For additional information please contact your sales representative.

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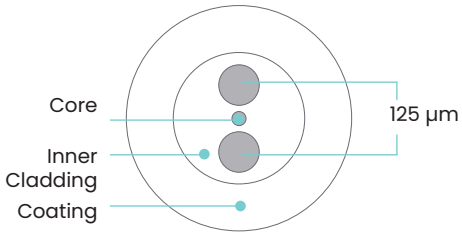
ErYb 7/125 Polarization-Maintaining Optical Fiber

P/N: 300 380 334



Features

- Core recipe optimized for high optical efficiency and shortest device lengths
- Pump wavelength 910 - 980 nm
- Low-splice-loss achieved to conventional single-mode fiber and most commercially available passive double-clad fibers
- High conversion efficiency
- Robust against 1 µm parasitics

Typical Applications

- Construction of multi-watt amplifiers around 1550 nm
- LIDAR, CATV, FTTx, FSOC

Product Specifications	
Product Description	**ErYb 7/125 PM Optical Fiber**
Physical Characteristics	
Core numerical aperture	0.17
Cladding numerical aperture	0.45
Cutoff wavelength	< 1500 nm
Mode field diameter @ 1550 nm	7 µm
Ytterbium clad absorption @ 915 nm	> 0.5 dB/m
Erbium peak absorption near 1535 nm	40 dB/m
Beat length @ 1060 nm	< 4.0 mm
Beat length @ 1550 nm	< 6.0 mm
Circular cladding diameter	125 µm
Coating outer diameter	250 µm
Mechanical and Environmental	
Proof Test Level	100 kpsi (0.69 GPa)
Order by Part Number	**300 380 334**

For additional information please contact your sales representative.

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RoHS COMPLIANT EU 2002/95/EC

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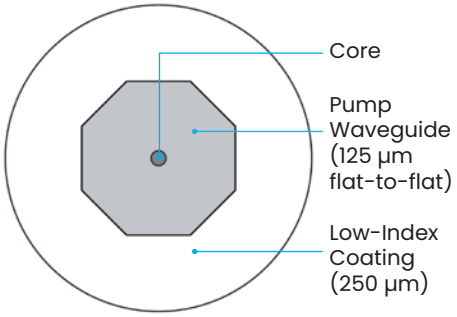
ErYb 8/128 Dual Cladding Optical Fiber

P/N: 89135



Features

- Good beam characteristics
- High efficiency
- Compact foot-print
- Superior reliability and quality

Typical Applications

- Optical Amplifiers operating in 1550 nm range, multi-Watt output power
- CATV amplifiers
- Amplifiers for free space communication
- LIDAR

Product Specifications	
Product Description	**ErYb 8/128 Dual Cladding Optical Fiber**
Optical Characteristics	
Operating Wavelength	1550 nm
Core Properties	
Numerical Aperture	0.24
Mode Field Diameter @ 1550 nm	7.4 µm
Absorption @ 1535 nm	55 dB/m
Cladding Properties	
Numerical Aperture	0.45
Absorption @ 915 nm	> 1.2 dB/m
Background Loss @ 1200	< 50 dB/km
Physical Characteristics	
Cladding Flat-Flat	125 µm
Cladding Peak/Peak	128 µm
Core/Clad Concentricity Error	≤ 0.3 µm
Core Diameter	8 µm
Coating Diameter	250 µm
Mechanical and Environmental	
Tensile Proof Test	100 kpsi (0.69 GPa)
Coating Material	Low Index Acrylate
Other Information	
Order by Part Number	**89135**
Product Description	**ErYb 8/128 Dual Cladding Optical Fiber**
Regulatory Compliance	REACH and RoHS Compliant
Quality Certification	ISO 9001 Certified

For additional information please contact your sales representative.

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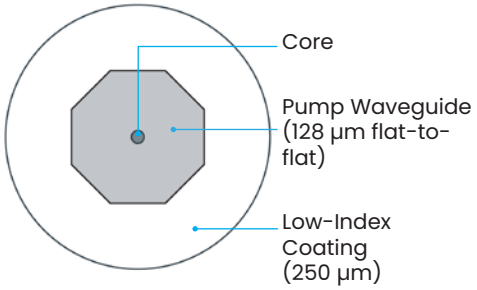
ErYb 10/128 P Dual Cladding Optical Fiber

P/N: 87822



Features

- Good beam characteristics
- High efficiency
- Compact footprint
- Superior reliability and quality

Typical Applications

- Optical amplifiers operating in 1550 nm range, multi-Watt output power
- CATV amplifiers
- Amplifiers for free space communication
- LIDAR

Product Specifications	
Product Description	**ErYb 10/128 P Dual Cladding Optical Fiber**
Optical Parameters	
Operating Wavelength	1535 - 1565 nm
Core Properties	
Numerical Aperture	0.10 - 0.13
Mode Field Diameter @ 1550 nm	9.6 - 12.0 µm
Absorption @ 1535 nm	65 ± 15 dB/m
Cladding Properties	
Numerical Aperture	≥ 0.45
Absorption @ 915 nm	4 ± 1 dB/m
Background Loss @ 1150 nm	< 20 dB/km
Physical Characteristics	
Core Diameter	10 µm
Cladding Diameter, Flat-to-Flat	128 ± 1.5 µm
Coating Diameter	250 ± 15 µm
Fiber Geometry	Octagonal, Dual Cladding
Mechanical and Environmental	
Tensile Proof Test	0.69 Gpa (100 kpsi)
Coating Material	TrueClad™ Low Index
Other Information	
Order by Part Number	**87822**
Product Description	**ErYb 10/128 P Dual Cladding Optical Fiber**
Regulatory Compliance	REACH and RoHS Compliant
Quality Certification	ISO 9001 Certified

For additional information please contact your sales representative.

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RoHS Compliant

REACH

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