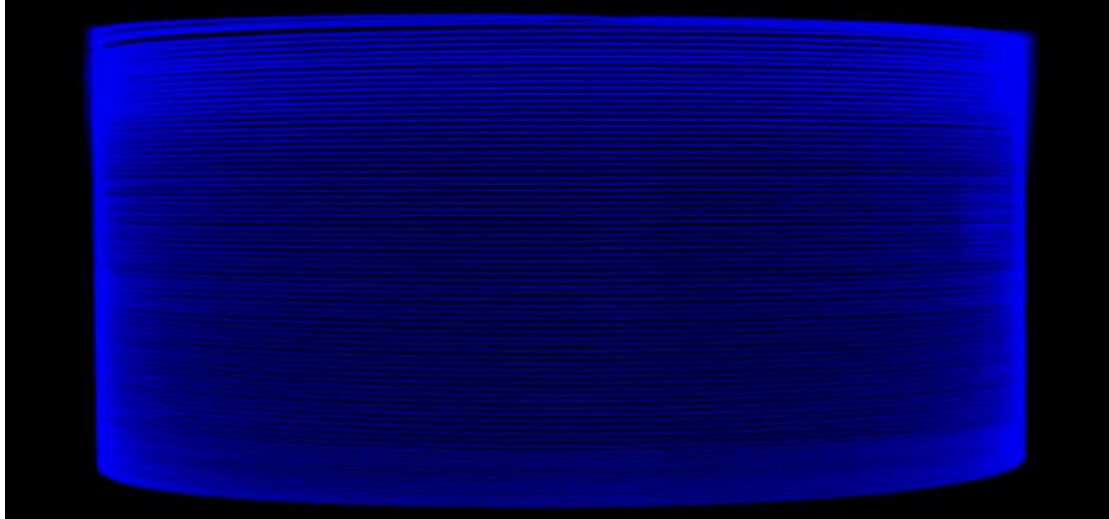


high doped erbium-doped fiber



● Product Description

This Er150-5/125 fiber is a high doped Erbium fiber designed for fiber lasers and amplifiers that require highest core absorption for shortest application lengths. The core refractive index profile is tailored in order to realize a fiber with normal dispersion.

● Part Number

Er150-5/125

● Product features

High absorption– reduces nonlinear effects、 High birefringence – minimizes stress、 Provides highly efficient energy transfer – minimizing pump power requirements、 Low background losses

● Application area

Ultrafast fiber lasers & amplifiers、 LiDAR、 Second Harmonic Generation、 Medical、 Scientific

Specifications

PN# Typical parameter			Er50-5/125	Er80-5/125	Er100-5/125	Er150-5/125
Optical Specs	Cutoff Wavelength	nm	≤ 1300	≤ 1300	≤ 1400	≤ 1500
	Core NA	-	0.26 ± 0.02	0.26 ± 0.02	0.26 ± 0.02	0.26 ± 0.02
	Background Consumption @1200nm	dB/km	≤ 15.0	≤ 15.0	≤ 15.0	≤ 15.0
	Core Absorption @1530nm	dB/m	50.0 ± 10.0	80.0 ± 20.0	100.0 ± 20.0	150.0 ± 30.0
	Mode Field Diameter @1550nm	μm	5.0 ± 0.7	5.0 ± 0.7	5.0 ± 0.7	5.0 ± 0.7
Geometric & Mechanical specs	Cladding diameter	μm	125.0 ± 1.0	125.0 ± 1.0	125.0 ± 1.0	125.0 ± 1.0
	Coating diameter	μm	245.0 ± 5.0	245.0 ± 5.0	245.0 ± 5.0	245.0 ± 5.0
	Core Concentricity Error	μm	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
	Cladding shape	-	Round	Round	Round	Round
	coating material	-	High refractive index coating	High refractive index coating	High refractive index coating	High refractive index coating
	Matrix material	-	quartz	quartz	quartz	quartz
	Screening strength	kpsi	≥ 200	≥ 200	≥ 200	≥ 200