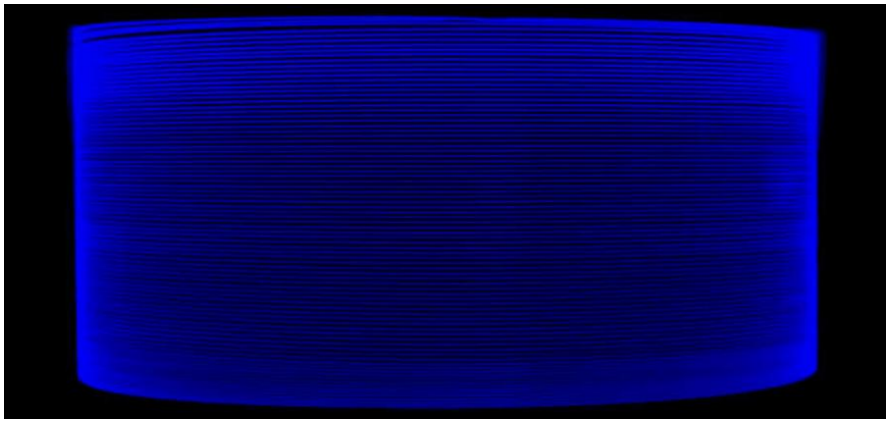
L-Band Erbium Doped Fibers



Product Description

This L-band Erbium Doped Fiber (EDF) product offers a pioneering fiber design that provides superior performance for L-band Erbium Doped Fiber Amplifiers (EDFAs). The core composition of EDFL-1480-HP-30 has been engineered to maximise the gain performance between 1570nm to 1630 nm and beyond. This allows use of the fiber in L, L+, L++ and Super L-band amplifiers.Its high cut-off wavelength (HC) fibers have larger core diameters, reducing non-linear effects and increasing efficiency at higher pump powers.

Product features

Highly consistent and reproducible spectroscopy — no need to batch matching GFFs、 Excellent core concentricity — low splice loss、 Detailed lot-specific characterization data — compatible with modeling programs

Part Number

IP-EDFL-1480-HP-30

Application area

L-band EDFAs / Telecoms、Low Power Fiber lasers、Wide band ASE sources、Lidar

Core parameters

Cutoff Wavelength	Core NA
⩽1230nm	0.26±0.02

General Parameters

Specifications

PN#/Parameters			IP-EDFL-1480-HP-30	IP-EDFL-1480-HP-37	IP-EDFL-1480T-HP-30
	Operating	nm	L-band	L-band	L-band

Optical specs	wavelength				
	Cut-off wavelength	nm	⩽1230	⩽1230	⩽1230
	Fiber core NA	-	0.26±0.02	0.26±0.02	0.26±0.02
	Background loss@1200nm	dB/km	⩽10.0	⩽10.0	⩽10.0
	Core absorption@1530nm	dB/m	30.0±3.0	37.0±3.0	30.0±3.0
	Mode field diameter @1550nm	μm	4.9±0.7	5.0±0.7	4.9±0.7
Geometric dimensions & mechanical specs	Cladding diameter	μm	125.0±1.0	125.0±1.0	80.0±1.0
	Coating diameter	μm	245.0±5.0	245.0±5.0	165.0±2.0
	Core-cladding concentricity error	μm	⩽0.3	⩽0.3	⩽0.3
	Cladding shape	-	round	round	round
	Coating material	-	High refractive index coating	High refractive index coating	High refractive index coating

	Matrix material	-	quartz	quartz	quartz
	Screening strength	kpsi	⩾200	⩾200	⩾200