

## Radiation Resistant Er-Doped Fiber >>

CJ Photonics Radiation Resistant Er-Doped Fiber has good radiation resistance characteristics, which can effectively reduce the impact of high-energy ion radiation on Er-doped fibers. This fiber has good consistency. It can be pumped at 980 nm or 1480 nm to achieve low loss connection with communication fibers.

### • Product Features

- ◎ Series concentration doping, suitable for fiber amplifiers with different requirements
- ◎ High consistency and stable performance
- ◎ Radiation resistance (300-1000gy)

### • Application Area

- ◎ Single channel/multi-channel fiber amplifier
- ◎ Fiber laser
- ◎ ASE light source
- ◎ Low earth orbit satellite communication

### • Product Parameters

Parameter		Type	EDF-M-7-RAD	EDF-M-14-RAD	EDF-M-21-RAD	EDF-M-30-RAD
Optical	Cut-off Wavelength	nm	≤1230	≤1300	≤1300	≤1300
	Core NA	-	0.22±0.02	0.22±0.02	0.24±0.02	0.26±0.02
	Background Loss@1200nm	dB/km	≤15.0	≤20.0	≤20.0	≤25.0
	Core Absorption@1530nm	dB/m	7.0±1.0	14.0±1.5	21.0±2.0	30.0±3.0
	RLGV@1545nm	dB/krad	<0.025	≤0.03	<0.06	≤0.035
	Mode-field Diameter@1550nm	μm	5.0±1.0	5.5±1.0	5.0±0.7	5.5±1.0
Geometrical&Mechanical	Cladding Diameter	μm	125.0±1.0	125.0±1.0	125.0±1.0	125.0±1.0
	Coating Diameter	μm	245.0±10.0	245.0±10.0	245.0±5.0	245.0±10.0
	Core-Cladding Concentricity Error	μm	≤0.3	≤0.3	≤0.3	≤0.3
	Cladding Geometry	-	Circular	Circular	Circular	Circular
	Coating Material	-	high refractive index coating	high refractive index coating	high refractive index coating	high refractive index coating
	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥200	≥200	≥200	≥200