SPECIALTY FIBER BISMUTH DOPED FIBER

Bi-Ge - CODOPED
SINGLE MODE FIBER

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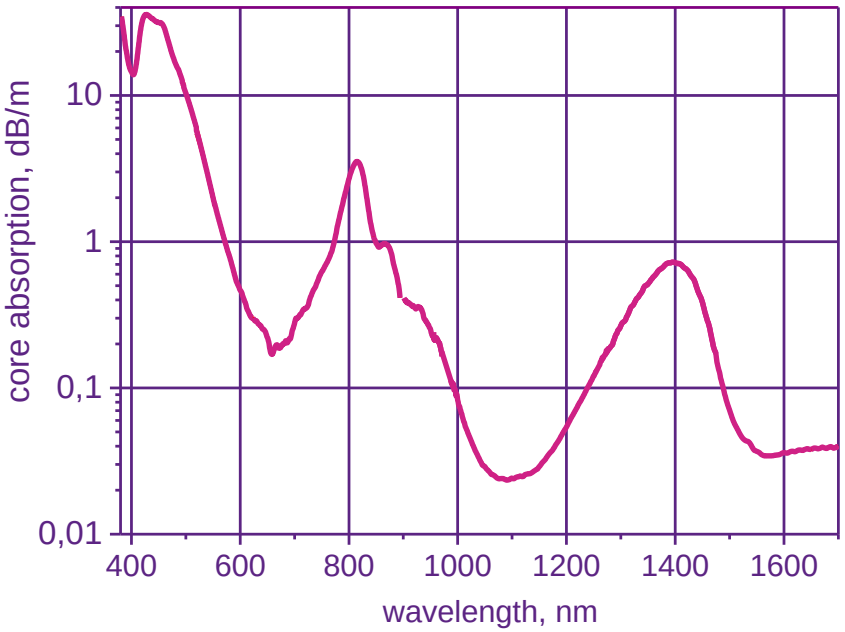
ARTICLE BGDF-SM-7/125-1430

Bismuth-Germanium codoped fiber BGDF-SM-7/125-1430 series is specially designed for typical application for amplifiers, lasers, superfluorescent fiber sources operating at 1370-1490nm.
Minimal fiber length required for 25 dB gain at 1430 nm L=85m (actual length depends on pump and signal power)
Minimal fiber length required for 25 dB gain in the range 1.41-1.45 L=100m (actual length depends on pump and signal power)



FIBER SPECIFICATIONS	BGDF-SM-7/125-1430
Core diameter, μm	6.5 ± 0.6
Clad diameter, μm	125 ± 5
Coating material type	Silicon rabber
Core NA	0.14 ± 0.02
Cutoff wavelength, μm	1.15 ± 0.1
Core absorption (1310 nm), dB/m	0.3 ± 0.06
Amplification range (-3dB), μm	1.41 ÷ 1.45
Typ. peak gain (@1430 nm), dB/m	› 0.3 (Pp ~ 200mW @ 1310 nm)
Typ. gain (@1410 ÷ 1450nm), dB/m	› 0.2 (Pp ~ 200mW @ 1310 nm)
Typical laser eff-cy	› 50% (vs pump power at 1310 nm)
Splice loss with SMF28 (@1310nm), dB	~ 0.2

Other parameters are available on the request