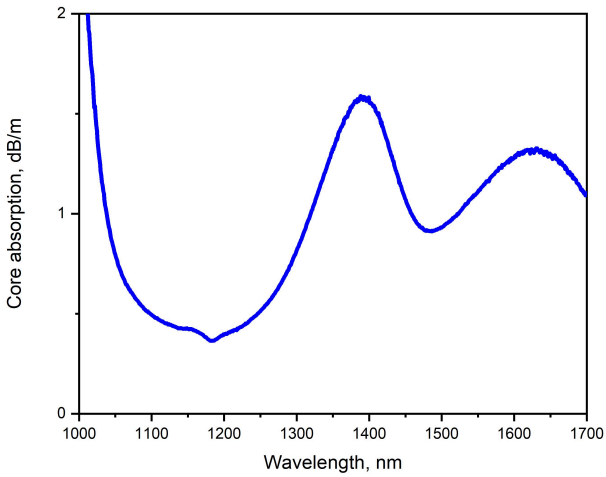
BISMUTH-DOPED FIBERS MODULES

ARTICLE OFM-BAC-GE-1650-1780



Bismuth-doped fibers modules OFM-BAC-GE-1650-1780 series is specially designed for typical application for amplifiers, lasers, superfluorescent fiber sources operating at 1650-1780nm.

Possible applications:

- Wideband and ultrabroadband fiber telecom systems with wavelength division multiplexing (including dense and course) where bismuth-doped fiber amplifiers (BDFA) help to increase fiber reach and capacity in several times;
- Widely tunable lasers for various applications including spectroscopy, sensing, metrology etc;
- Wideband and ultrawideband superfluorescent fiber sources for OCT, telecom etc.
- Short and Ultrashort pulse fiber lasers in sub-ps, -ps and -ns ranges in diapason 1.1-1.8 um for variety of applications including spectroscopy, metrology, sensing etc.

FIBER SPECIFICATIONS	OFM-BAC-GE-1650-1780
Wavelength range, nm	1650 ÷ 1780
Core diameter, μm	3.0 ± 0.6
Clad diameter, μm	125 ± 5
Coating diameter, μm	230 ± 20
Coating material type	silicon rubber
Core NA	0.4 ± 0.06
Cutoff wavelength, μm	1.3 ± 0.15
Core absorption (1600 nm), dB/m	> 1
Amplification range (-3dB), nm	1650 ÷ 1780
Typ. peak gain (@1700 nm), dB/m	> 0.3 (Pp ~ 200mW at 1470 nm)
Typ. gain (@1650 ÷ 1750 nm), dB/m	> 0.2 (Pp ~ 200mW at 1470 nm)
Typical laser eff-cy, %	> 20% (vs pump power at 1470 nm)
Splice loss with SMF28 (@1310), dB	~ 1.2

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