

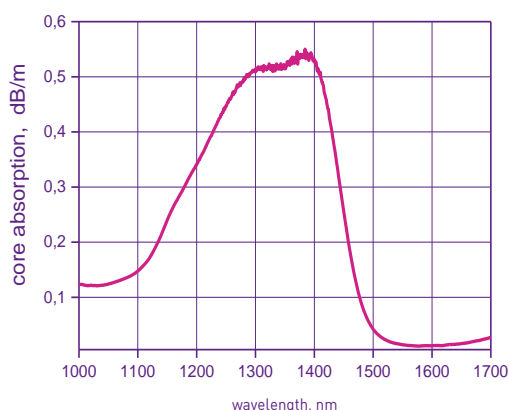
SPECIALTY FIBER BISMUTH DOPED FIBER

Bi-P - CODOPED
SINGLE MODE FIBER

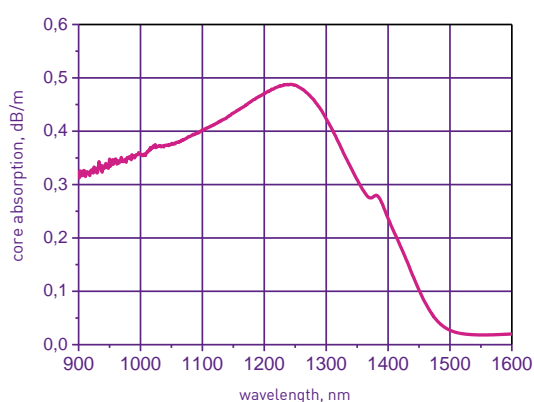
ARTICLE BPDF-SM-5/125-1320 AND BPDF-SM-6/125-1320

Bismuth-Phosphorus codoped fiber BPDF-SM-5/125-1320 and BPDF-SM-6/125-1320 series is specially designed for typical application for amplifiers, lasers, superfluorescent fiber sources operating at 1280-1450nm.

BPDF-SM-5/125-1320 has low bending losses. Specially designed for wideband amplification since includes 2 types of BACs.



BPDF-SM-5/125-1320



BPDF-SM-6/125-1320

FIBER SPECIFICATIONS	BPDF-SM-5/125-1320	BPDF-SM-6/125-1320
Core diameter, μm	4.8 ± 0.4	5.6 ± 0.6
Clad diameter, μm	125 ± 5	125 ± 5
Coating diameter, μm	230 ± 20	230 ± 20
Polymer type	Silicon rubber	Silicon rubber
Core NA	0.18 ± 0.02	0.14 ± 0.02
Cutoff wavelength, μm	1.15 ± 0.05	1.05 ± 0.05
Core absorption (1350 nm), dB/m	0.5 ± 0.05	0.5 ± 0.05
Typical amplification range (-3dB), nm	$1300 \div 1415$	$1295 \div 1340$
Typ. peak gain (@1320 nm), dB/m	> 0.18 ($P_p < 350\text{mW}$)	> 0.2 ($P_p < 350\text{mW}$ @ 1240 nm)
Small signal loss (@1550 nm), dB/km	n/a	< 35
Typical laser eff-cy	$> 15\%$ (vs pump power at 1200 nm)	$> 20\%$ (vs pump power at 1240 nm)
Splice loss with SMF28 (@1310nm), dB	~ 0.3	~ 0.3

Other parameters are available on the request