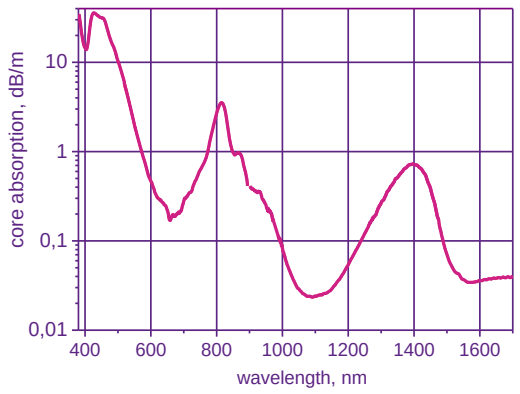
SPECIALTY FIBER BISMUTH DOPED FIBER

Bi-Ge - CODOPED
SINGLE MODE FIBER

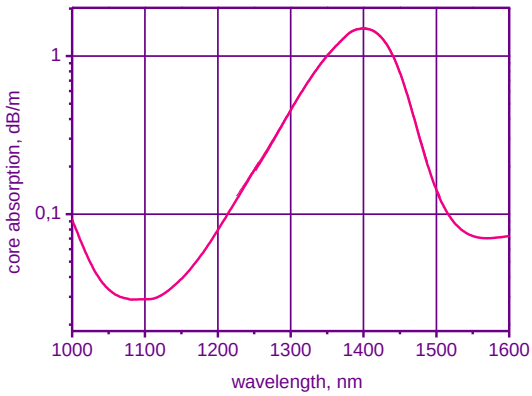
ARTICLE BGDF-SM-7/125-1430 and BGDF-SM-7/125-1430-HC

Bismuth-Germanium codoped fiber BGDF-SM-7/125-1430 and BGDF-SM-7/125-1430-HC series is specially designed for typical application for amplifiers, lasers, superfluorescent fiber sources operating at 1370-1490nm.
The fibers with article BGDF-SM-7/125-1430-HC has more attractive core absorption and typ.gain and shorter length is required to achieve the result.
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)

BGDF-SM-7/125-1430



BGDF-SM-7/125-1430-HC



FIBER SPECIFICATIONS	BGDF-SM-7/125-1430	BGDF-SM-7/125-1430-HC
Core diameter, μm	6.5 ± 0.6	
Clad diameter, μm	125 ± 5	
Coating diameter, μm	230 ± 20	
Coating material type	Silicon rabber	
Core NA	0.14 ± 0.02	
Cutoff wavelength, μm	1.15 ± 0.1	
Amplification range (-3dB), μm	1.41 ÷ 1.45	
Core absorption (1310 nm), dB/m	0.3 ± 0.06	0.53 ± 0.1
Typ. peak gain (@1430 nm), dB/m	› 0.3 (Pp ~ 200mW @ 1310 nm)	› 0.5 (Pp ~ 200mW @ 1310 nm)
Typ. gain (@1410 ÷ 1450nm), dB/m	› 0.2 (Pp ~ 200mW @ 1310 nm)	› 0.33 (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