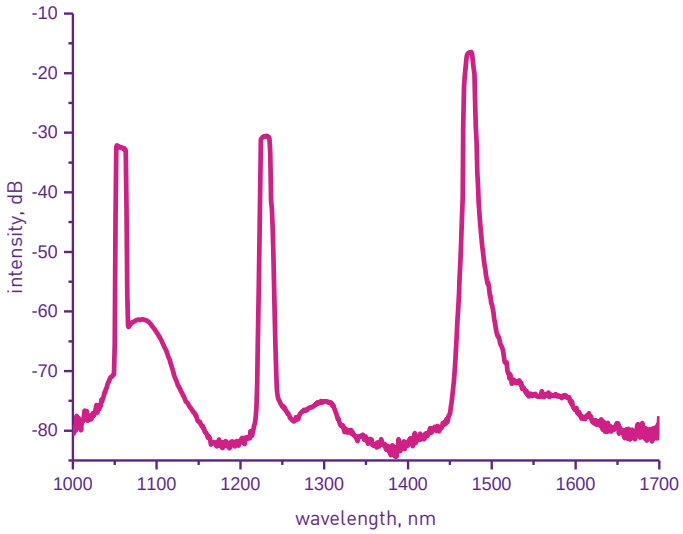
RAMAN FIBER LASER CONVERTERS

WAVELENGTH REGION – 1240nm
WAVELENGTH REGION – 1270nm
WAVELENGTH REGION – 1484nm

Highly efficiently multicascaded Raman lasers based on phosphosilicate fibers (P-doped) can be created at different wavelength. Raman shift by 1330 cm-1 in opposite to Ge-doped fibers is approximately three times larger. Output emission spectrum of two-cascade 1.48 μm Raman fiber laser converter is presented in the graph.
The wavelength region can be changed at the customer's request.
Available to change the wavelength with combination of Ge-doped and P-doped).



CONVERTERS SPECIFICATIONS	FOLR-1240	FOLR-1270	FOLR-1484
Central wavelength, nm	1240 ± 0.5	1270 ± 0.5	1484 ± 0.5
Spectral bandwidth, nm	0.5*	0.5*	0.5*
Mode composition of radiation	SM	SM	SM
MFD, μm	7 ± 0.5	7 ± 0.5	7 ± 0.5
Radiation quality	TEM00 (M2 ‹ 1.12)	TEM00 (M2 ‹ 1.12)	TEM00 (M2 ‹ 1.12)
Pigtail fiber type, μm	6/125/250	6/125/250	6/125/250
Numerical aperture	0.13	0.13	0.13
Operating temperature, °C	+ 10 ÷ + 50	+ 10 ÷ + 50	+ 10 ÷ + 50
Humidity,%	‹ 80 (non-condensing)	‹ 80 (non-condensing)	‹ 80 (non-condensing)
Storage temperature, °C	-20 ÷ +40	-20 ÷ +40	-20 ÷ +40
Dimensions (L x W x H), mm	210 x 148 x 13	210 x 148 x 13	210 x 148 x 13
Weight, kg	‹ 1	‹ 1	‹ 1

* - depends on the output power

The configuration can be changed at the customer's request. The parameters specified in this specification can be changed in accordance with the terms of reference.