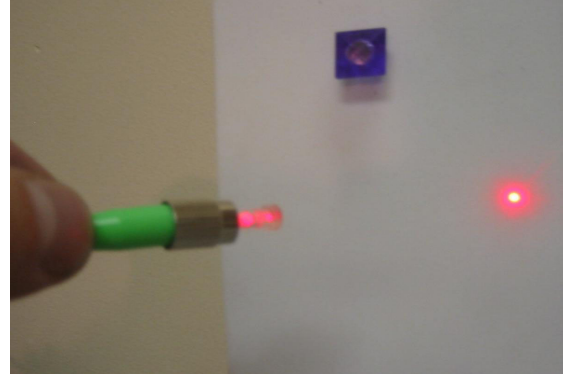# Compact snap-on fiber collimator

Model: 011

Key design features include:

- Compact *focusable broadband device* with low insertion and polarization dependant losses

- Broadband. Can operate with different FC- SC- ST connectorized fibers. (SMA version is available)

- Epoxy-free light pass for high power operation

Snap-on fiber collimator consists of precise optical lens assembly and can be attached directly to FC-, SC-, ST-or SMA- type optical connector as shown in the photo. It collimates or focuses beams from different multi- or single-mode fiber patch-cords, or couples collimated beams into SM, MM or PM optical fibers. Collimator contains aspheric lens, controllable along Z-axis only, providing collimation or focusing adjustment. Collimator is a compact device, having plastic body.

Preliminary Specifications:

Description	Model 011	Unit
Operating wavelength range	450-2000	nm
Maximum optical power	23	dBm
Size	(5x12)or (4x9)	mm
Collimated beam diameter	~0.3- 1.9	mm
Fiber type*	Hi-980, smf-28, PM, MM (50, 62.5, 105, 200 μm core size)	
Return loss	-30 …-45	dB

 * Other connectorized fiber types are available

Fiber core size	Focused beam size ** (FWHM), μm	Collimated beam size *** (FWHM), μm	Collimated beam divergence, Deg
10	~14	~230	0.07
50	~60	1680	0.47
62.5	~75	~1600	0.4
105	~175	~3300	0.9
200	380	~5000	1.8

** Measured at distance of 12 mm from adjusted to focusing device

*** Measured at distance of 200 mm from adjusted to collimation device
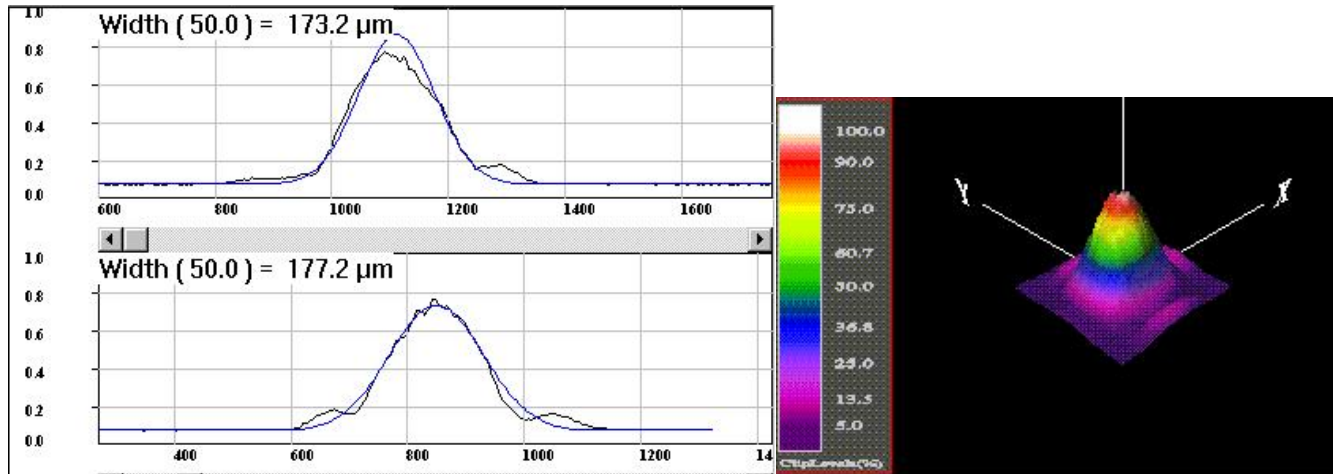
Typical field profile, measured at wavelength of 670 nm for collimator attached to AFS 105/125 MM FC/PC connectorized fiber patch-cord. Device was adjusted to focusing
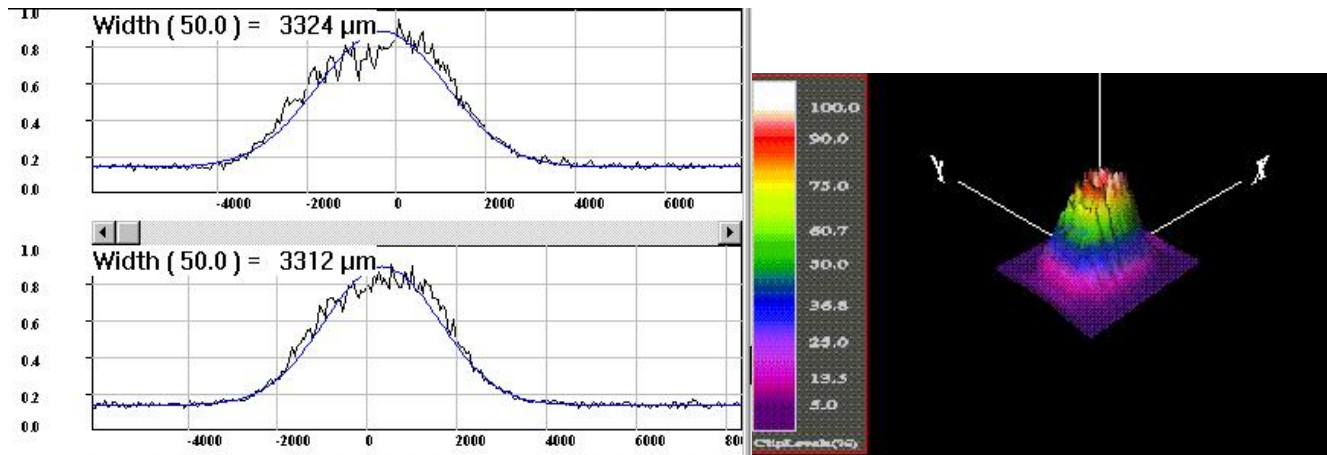
Typical field profile, measured at wavelength of 670 nm for collimator attached to AFS 105/125 MM FC/PC connectorized fiber patch--cord. Device was adjusted to collimation

Applications: optical sensing, active optoelectronic/fiber-optic devices testing, etc.

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