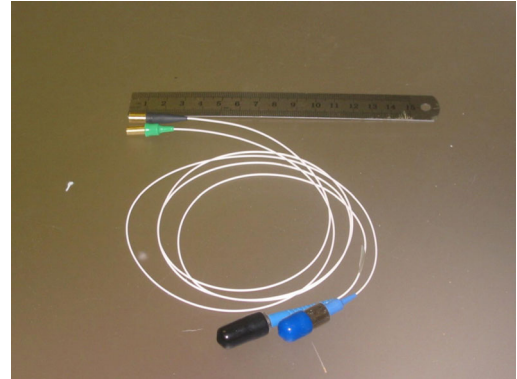


## Pigtailed fiber collimator

### Model: 015

**Key design features include:**

- Compact *fiber pigtailed device* with low back-reflection and polarization dependant losses
- Broadband device (VIS-IR), choice of pigtail: SM, MM, PM fibers. Optional -connectorization.
- Epoxy-free light pass for high power operation



Compact fiber pigtailed collimator consists of precise optical lens assembly and can be supplied with different type of optical fiber pigtails, having FC/APC, FC/PC or cleaved fiber end, as shown in the photo. It can be set to collimate or focus beams from different multi- or single-mode fibers, or to couple collimated beams into SM, MM or PM optical fibers. Collimator contains aspheric lens, fixed inside metal body, providing collimated or focused beam output. Collimator pigtail can be supplied with optional FC/PC, FC/APC or SMA connectors.

**Preliminary Specifications:**

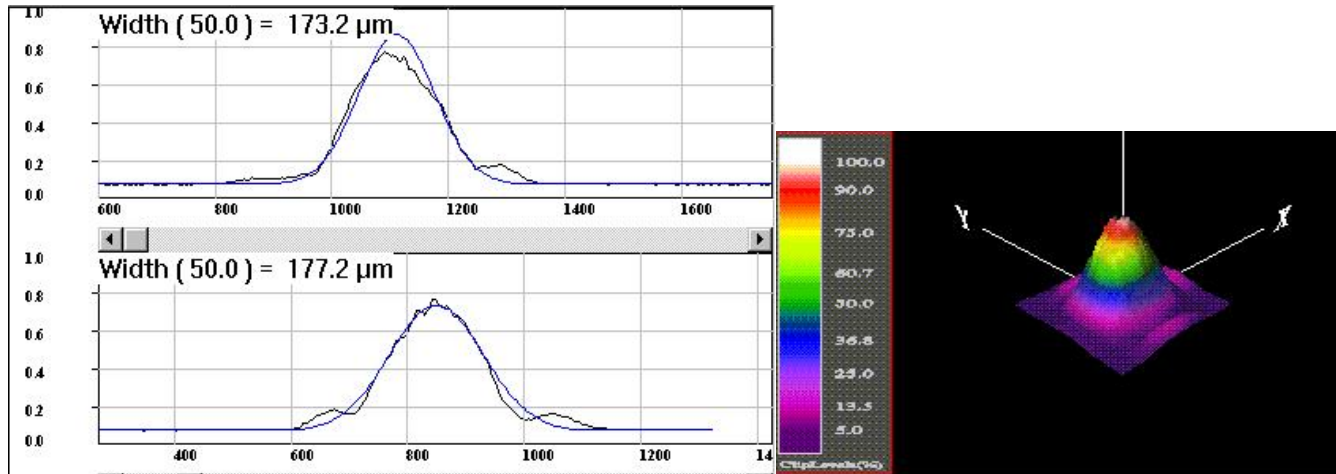
Description	Model 015	Unit
Operating wavelength range	450-2000	nm
Maximum optical power	23	dBm
Size	5x30	mm
Collimated beam diameter	~0.6- 1.9	mm
Fiber type*	Hi-980, smf-28, PM, MM (50, 62.5, 105, 200 $\mu\text{m}$ core size) (Length of primary-coated fiber pigtail: ~ 1m)	
Operating temperature	-10 to +65	$^{\circ}\text{C}$

\* Other fiber types are available

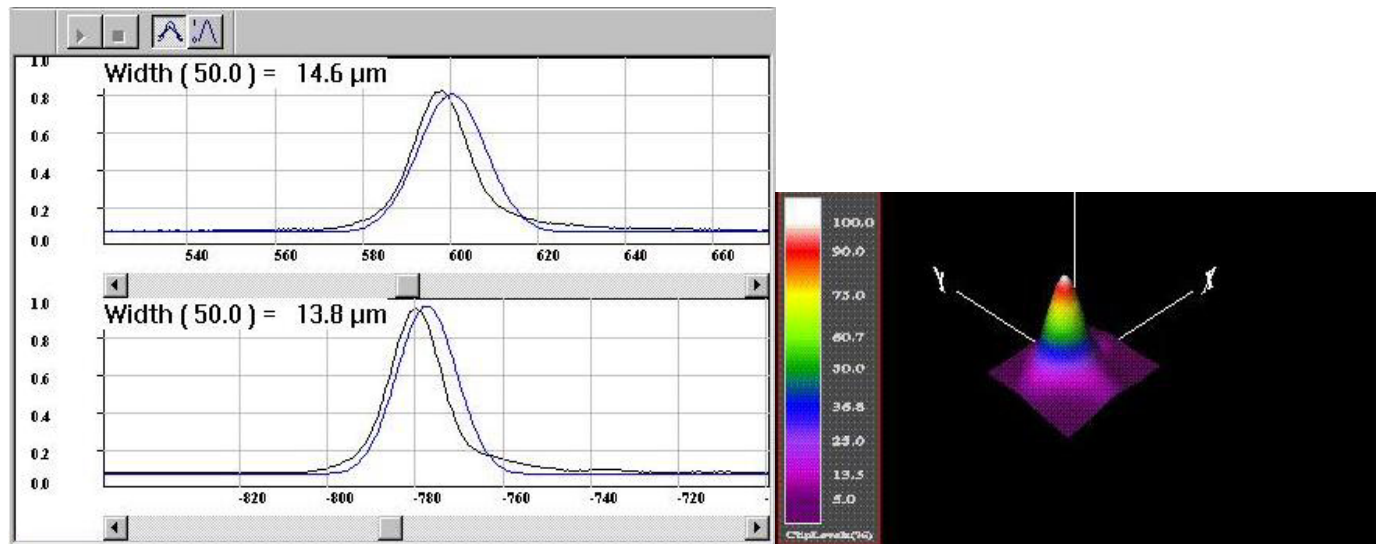
Fiber core size	Focused beam size ** (FWHM), $\mu\text{m}$	Collimated beam size *** (FWHM), $\mu\text{m}$	Collimated beam divergence, Deg
10	~14	~230	0.07
50	~60	1680	0.47
62.5	~75	~1600	0.4
105	~175	~3300	0.9
200	380	~5000	1.7

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

\*\*\* Measured at distance of 200 mm from adjusted to collimation device

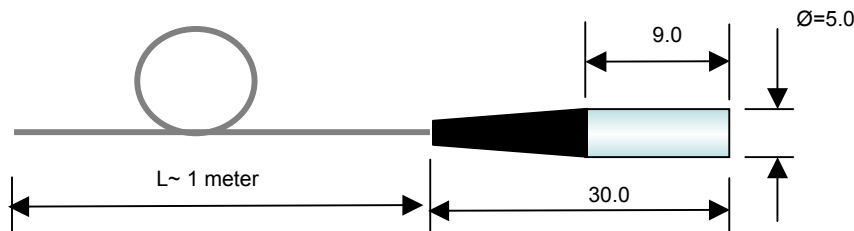


Typical field profile, measured at wavelength of 670 nm for collimator attached to AFS 105/125 MM FC/PC connectorized fiber pigtail. Device was adjusted to focusing. Gaussian fit is shown on the left hand side traces.



Typical field profile, measured at wavelength of 670 nm for collimator attached to 10 micrometers core size FC/PC connectorized fiber pigtail. Device was adjusted to focusing. Gaussian fit is shown on the left hand side traces.

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



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