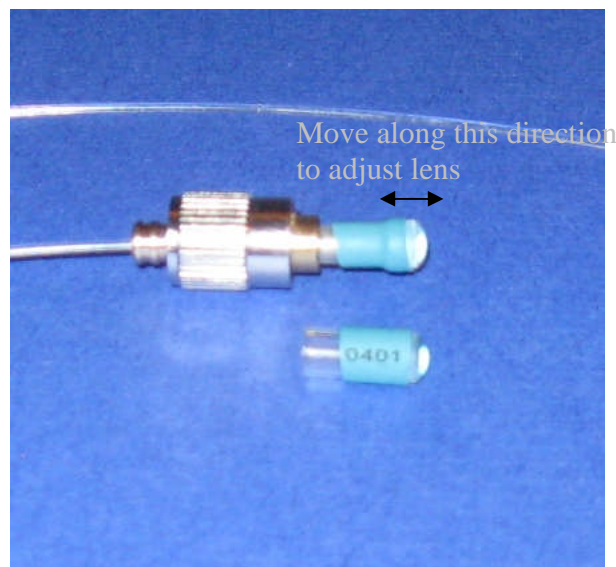


Miniature collimator for POF fiber: large aperture Model 011-TU2

Testing report



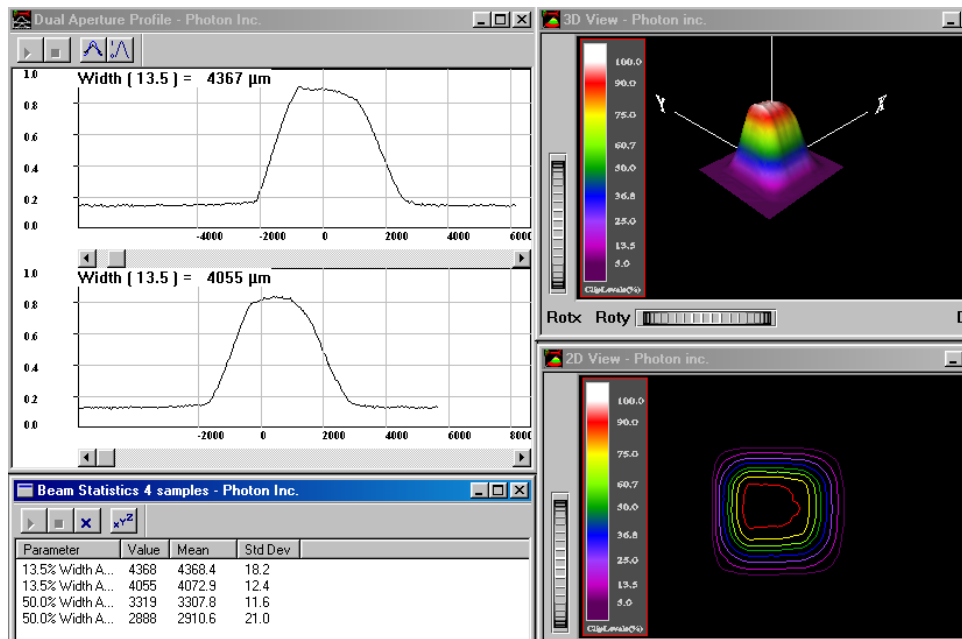
Model 011_TU2 with glass lens

Part Number:	Model 011-TU2			
Unit Number:	WTO0218	WTO0219	WTO0220	WTO0221
Package type	4, plastic	4, plastic	4, plastic	4, plastic
Connectors compatibility	FC-, SC-, ST	FC-, SC-, ST	FC-, SC-, ST	FC-, SC-, ST
Dimensions, mm	~11x5.5	~11x5.5	~11x5.5	~11x5.5
Lens material	BK7	BK7	BK7	BK7
Test power, dBm	+10dBm	+10dBm	+10dBm	+10 dBm
Max power, dBm	~23	~23	~23	~23
Test wavelength	~637 nm			
Fiber/connector	FC/UPC 980/1000 POF fiber; NA~0.5			
Beam FWHM (@40 cm collimation)*, cm	~6.5	~6.5	~6.5	~6.5
Beam FWHM (@10 mm focusing)*, mm	~3	~3	~3	~3
Test temperature	21C	21C	21C	21C

***Measurement conditions:** LED source @ ~637 nm is coupled to multi-mode fiber patch-cord. Collimator has been attached to the end of patch-cord's FC/PC fiber connector. Collimator has been adjusted to quasi-collimation or focusing mode (sliding

along connector ferrule) at set distances between collimator output and beam profiler (~400 mm for collimated beam measurements).

Focusing mode: beam profile measurements at distance of ~10 mm from the lens. Multi-mode POF 980/1000 um fiber, device was adjusted to focusing. Typical beam profile:



Unit has been tested using following equipment:

Light sources: LE-1R; (WT&T)
Beam profiler: Beam Pro & Beam Scan (Photon Inc)
Temperature control: 1200 (Omega)
T&M/Quality control: Operator 2

Brief Info: Model 11 (snap-on fiber collimator) consists of an optical lens assembly and can be attached directly to FC-, SC- or ST type optical connector as shown in the photo. Please notice that FC connectorized fiber pigtail is not included. 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. Model 011-TU2 contains large aperture glass optical lens, controllable along Z-axis only, providing collimation or focusing adjustment.