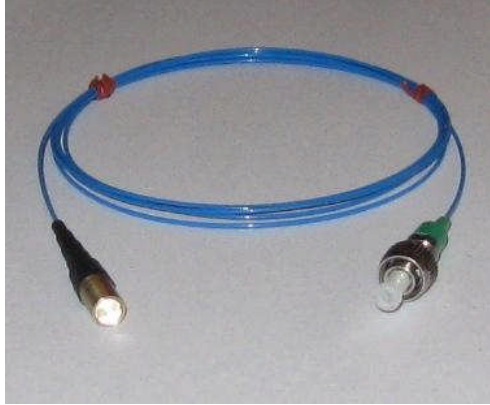


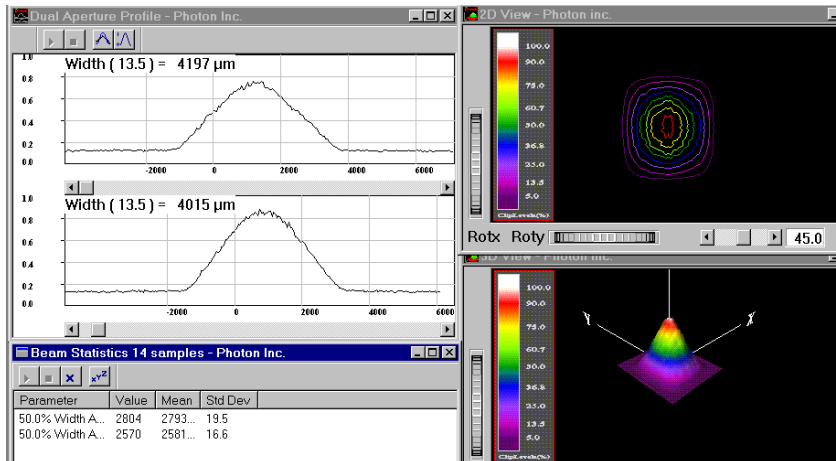
**Optical fiber collimator: Model 015****Testing report**

---

**Testing report for UNIT: WTO099**

<b>Part Number:</b>	Model 015 (customized)
<b>Unit Number:</b>	WTO099
<b>Package type</b>	5 BU
<b>Connector</b>	SMA
<b>Fiber type</b>	Multi mode fiber (200/240/260)
<b>Protection</b>	Primary coated, 0.9 mm buffered
<b>Fiber length, m</b>	~1
<b>Test power</b>	5 dBm
<b>Max power</b>	~23 dBm
<b>Test wavelength</b>	~670 nm
<b>Beam FWHM (@20 cm ,collimation)*, um</b>	~2800
<b>Working distance, cm</b>	~20
<b>Insertion loss, dB*</b>	-0.95
<b>Return loss, dB</b>	-22
<b>Test temperature</b>	21C

- \* Including loss on SMA adapter
- **Measurement conditions:** Laser source @ 670 nm is coupled to 105/125 um multi-mode hybrid fiber patch-cord and connected to Model 015 fiber pigtail. Collimator has been adjusted to collimation mode and beam diameter has been measured at distance between collimator output and beam profiler of ~20 cm.



Optical beam profile measured at distance of 20 cm from the Model 015 output aperture at wavelength of ~ 670 nm. Collimator pigtail connector has been plugged into a multi-mode fiber-coupled source, using SMA to FC/PC hybrid mm fiber patch-cord.

**WARNING:** Do not twist the fiber pigtail. Use only IPA to clean optical connector and lens.

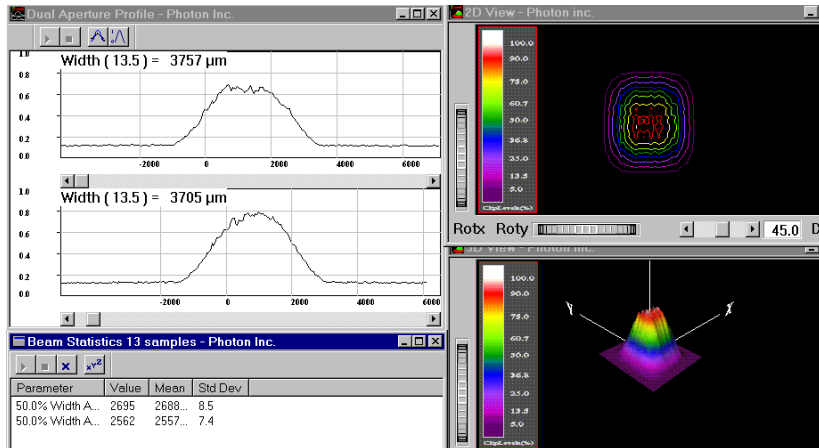
**Unit has been tested using following equipment:**

Laser sources:	LD-05IR (WT&T)
Return loss measurement:	ODB-4 (WT&T)
Beam profiler	BeamScan (Photon Inc)
Temperature control	1200 (Omega)
T&M/Quality control:	Operator 3

**Testing report for UNIT: WTO100**

<b>Part Number:</b>	Model 015 (customized)
<b>Unit Number:</b>	WTO100
<b>Package type</b>	5 BU
<b>Connector</b>	SMA
<b>Fiber type</b>	Multi mode fiber (62.5/125)
<b>Protection</b>	Primary coated, 0.9 mm buffered
<b>Fiber length, m</b>	~1
<b>Test power</b>	5 dBm
<b>Max power</b>	~23 dBm
<b>Test wavelength</b>	~660 nm
<b>Beam FWHM (@20 cm ,collimation)*, um</b>	~2700
<b>Working distance, cm</b>	~20
<b>Insertion loss, dB*</b>	-0.95
<b>Return loss, dB</b>	-23
<b>Test temperature</b>	21C

- \* Including loss on SMA adapter
- **Measurement conditions:** Laser source @ 670 nm is coupled to 105/125 um multi-mode hybrid fiber patch-cord and connected to Model 015 fiber pigtail. Collimator has been adjusted to collimation mode and beam diameter has been measured at distance between collimator output and beam profiler of ~20 cm.



Optical beam profile measured at distance of 20 cm from the Model 015 output aperture at wavelength of  $\sim 670$  nm. Collimator pigtail connector has been plugged into a multi-mode fiber-coupled source, using SMA to FC/PC hybrid mm fiber patch-cord.

**WARNING:** Do not twist the fiber pigtail. Use only IPA to clean optical connector and lens.

---

**Unit has been tested using following equipment:**

Laser sources:	LD-05IR (WT&T)
Return loss measurement:	ODB-4 (WT&T)
Beam profiler	BeamScan (Photon Inc)
Temperature control	1200 (Omega)
T&M/Quality control:	Operator 3