



Visible Beam Delivery Collimator (VBD Series)

Spec Review No.: SR14545B Date: June 30, 2016

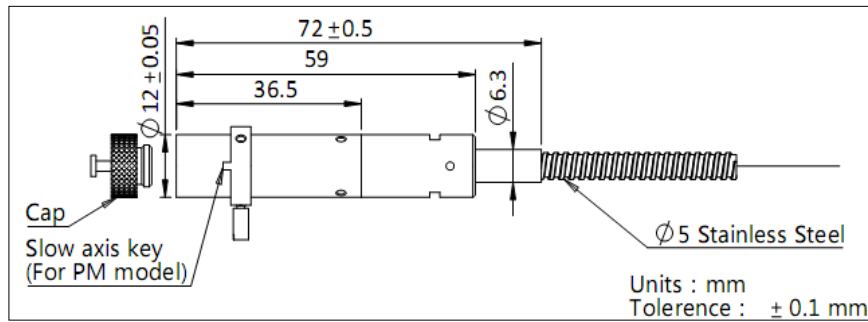
The Visible Beam Delivery Collimator is the basic element for optics systems from 488nm to 640nm. The beam diameter can be customized, it has high extinction ratio, low insertion loss and high return loss. The most advantage of the collimator is the high output pointing accuracy with high stability and reliability. The unique processing and high quality AR coating also enable this collimator to handle high power.



Specifications

	Units	Value
Operating Wavelength		
Single Laser Wavelength Fiber Systems	nm	488, 532 or 640
Multiple Laser Wavelength Systems	nm	488 - 640
Maximum Input Laser Power	mW	500
Operating Performance		
Polarization Extinction Ratio	dB	≥ 20
Throughput Efficiency (assuming 0.7 input beam diameter)	%	≥ 65
Fiber Parameter		
Fiber Length	m	1 to 3
Fiber Protective Jacket		Stainless Steel, 5mm OD
Collimated Output Beam		
Beam Diameter	mm	0.65 ± 0.1
Beam Waist Position	mm	30 ± 200
M Square		≤ 1.05
Pointing Stability	μrad/°C	≤ 1
Beam Divergence		Diffraction Limited
Mechanical Dimension	mm	Φ12 × 59
Output Eccentricity	mm	≤ ± 0.15
Output Concentricity	mrad	≤ ± 0.5
Connectorized Output Beam		
Polarization Marked		Yes
Polarization Direction	deg	< ± 3
Environmental Conditions		
Storage Temperature	°C	10 to 50
Operating Temperature	°C	10 to 40
Operating Pressure		Atmospheric
Operating Humidity		Non-condensing

Package Dimensions



Ordering Information

VBD-①①①-②-③-④-⑤

①①①: Wavelength

488 - 488 nm

532 - 532 nm

640 - 640 nm

SSS - Specify

②: Beam Diameter

0.65 - 0.65 ± 0.1

S - Specify

③: Fiber Jacket

S - Stainless Steel

④: Fiber Length

1 - 1 m

2 - 2 m

3 - 3 m

S - Specify

⑤: Fiber Type

P - PM fiber

S - Singlemode fiber