

Miniature OCT fiber probe

Description

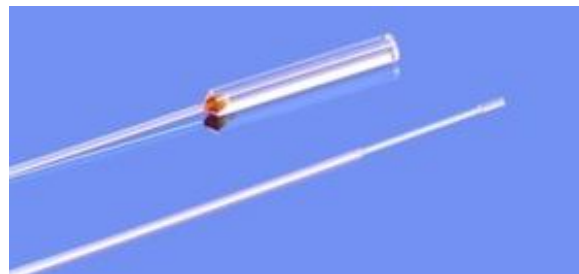
Miniature OCT fiber probe is the ideal optical imaging solution offering high resolution and high sensitivity in a miniature format. Based on mini-collimator technology, a high quality lens is uniquely formed directly at the fiber tip that focuses to a small beam spot. The OCT fiber probe features optical efficiency that is more than five times greater than a fiber coupled to instrumentation applications.

Key Features

- Low Loss
- High Optical Efficiency
- Low Internal Reflection
- Low Distortion
- Low Cost
- Patented Technology



Fiber probe with rectangular prism



Fiber probe without rectangular prism

Applications

- Imaging, OCT
- Fiber Collimator
- Optical System
- Optical Coupling
- Optical sensor

Specifications

Parameter	Unit	Specification
Wavelength	nm	1550
Bandwidth	nm	± 25
Insertion loss ¹	dB	≤ 0.2
Couples loss ¹	dB	≤ 1
Working distance	mm	2 ~ 5
Beam size (at waist)	μm	30 ~ 110
Return loss	dB	≥ 45
Extinction ratio ²	dB	≥ 20
Outer diameter (OD)	mm	0.25
Output angle ³	$^{\circ}$	90 ± 5
Operating temperature	$^{\circ}\text{C}$	-5 ~ +50
Storage temperature	$^{\circ}\text{C}$	-20 ~ +70

1: The loss for without connector, loss is 0.3dB higher and RL is 5dB lower for connector added.

2: Extinction ratio: Just for PM type.

3: Output angle: Just for output with rectangular prism.

Ordering Information

(P)MINCOLL-XXXX-X-X-X-X -XX*XX-X

