

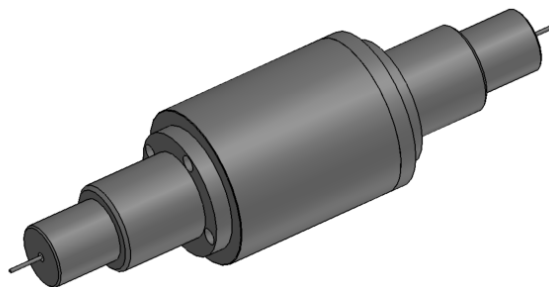
# 100W High Power Polarization Maintain In-line Isolator, HPMIIT

## Description

The high power isolator series includes in-line type, beam expanded isolator, fiber in and free space out isolator and free space isolator etc., They're characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. They are ideal for fiber laser and instrumentation applications.

## Key Features

- \* High isolation and low insertion loss
- \* Excellent environmental stability and reliability
- \* Fiber can be customized



HPMIIT

## Applications

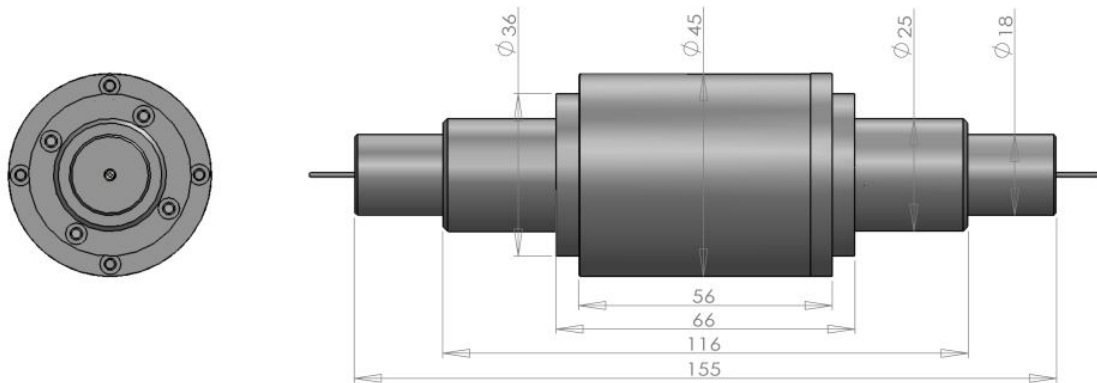
- \* Fiber Laser
- \* Fiber Sensor

## Specifications

Parameter		Type	High power in-line isolator, HPMIIT
			PM isolator
Operating wavelength (nm)			1064±5
Peak isolation ( dB)			35
Isolation in band at 23℃ ( dB)			≥28
Insertion loss at 23℃ ( dB)			≤1.5
Extinction ratio ( dB)			≥16
Return loss ( dB)			≥50
Fiber type	Input Fiber		Liekki PM 10/125 SCF
	Output Fiber		Liekki PM 10/125 DCF
Input max. power handling Average (W)			100
Operating Temperature (℃)			-5 ~ +50
Storage Temperature (℃)			-20 ~ +70
Dimensions (Φ x L mm)			Φ45 x L155

- \* Both single cladding fiber (SCF) and double cladding fiber (DCF) are available.
- \* Working axis: Fast axis blocked.
- \* Backward power < 10% of the Input Power.
- \* The isolator is suggested to be assembled on the heat sink with air cooled.
- \* The loss of the light through fiber cladding is not included in the Insertion Loss specification.

## Mechanical Dimensions (Unit: mm)



## Ordering Information

HPMIIT-XXXX-X-X-X(XX)- X -XX\*XX- X

