

# High Power In-line Isolator, HP(M)IIT

## Description

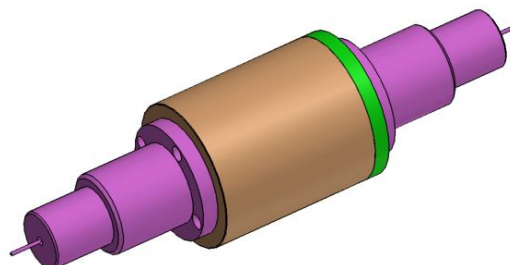
The high power isolator series includes in-line type, beam expanded isolator, fiber in and free space out isolator and free space isolator etc., They're characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. They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

## Key Features

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

## Applications

- \* Fiber laser
- \* Fiber lensor



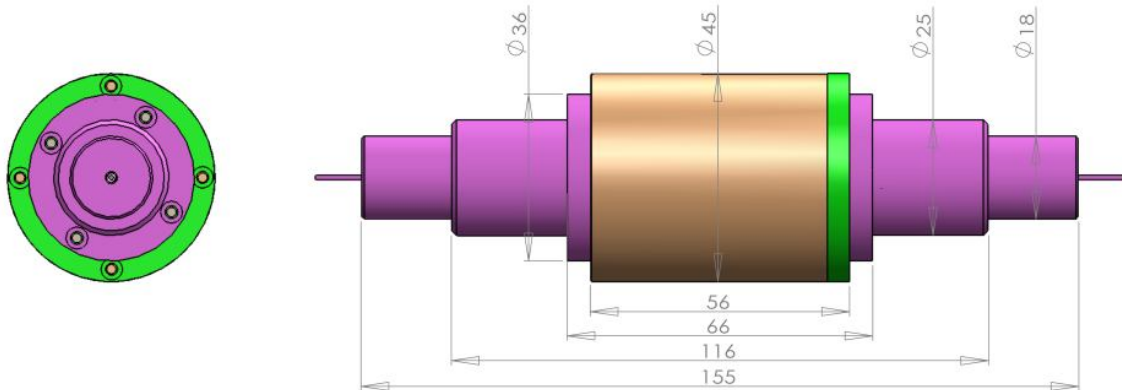
HP(M)IIT

## Specifications

Parameter	Type	High power in-line isolator, HP(M)IIT	
		Non-PM isolator	PM isolator
Operating wavelength( nm)		1064±5	
Peak isolation ( dB)		35	
Isolation in band at 23℃( dB)		≥28	
Insertion loss at 23℃( dB)		≤1.2	
Polarization dependent loss ( dB)		≤0.15	/
Extinction ratio ( dB)		/	≥18 (Type B) , ≥20 (Type F)
Return loss ( dB)		≥50	
Fiber type (can be customized)		HI1060, x/125, x/250, etc. (x=10um, 15um, 20um, 30um,etc.)	PM980, PM x/125, x/250, etc. (x=10um,15um,20um,30um,etc.)
Input max. power handling	Average (W)	2~20, higher on demand	
	Pulse peak(KW)	10, higher on demand	
Operating temperature (℃)		-5 ~ +50	
Storage temperature (℃)		-20 ~ +70	
Dimensions ( Φ x L mm)		Φ 45 x L155	

- \* Both single cladding fiber (SCF) and double cladding fiber (DCF) are available.
- \* Type B: Both axis working, Type F: Fast axis blocked.
- \* Backward power<10% input power
- \* Dimension can be made on customer request
- \* Insertion loss of light through fiber cladding is not included in the Insertion loss specification.

## Mechanical Dimensions (Unit: mm)



## Ordering Information

HP(M)IIT-XXXX-X-X-X(XX)- X -XX\*XX- X

- Fiber length
- Package size:  $\varnothing 45 \times L155\text{mm}$
- Average power handling: 1=1W, 2=2W, 5=5W, 10=10W, 20=20W etc.
- Power condition: C=Continue wave, P(10)=Pulse peak power(10KW),etc.
- Fiber type: Fiber code
- Pigtail diameter: 0=bare fiber
- Operating wavelength: 1064nm etc.
- HPMIIT(PM type), HPIIT(Non-PM type)