

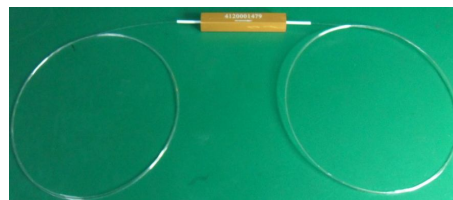
# 500mW 1064nm In-line Isolator

## Description

The 500mW 1064nm in-line isolator is characterized with low cost and compact size. Lightcomm developed a kind of effective heat dissipation technique that the isolator temperature will be fall down. It is characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. It is 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
- \* Customized fiber type available



## Applications

- \* Fiber laser
- \* Fiber sensor

## Specifications

Type Parameter		Non-PM isolator		PM isolator	
		Single stage			
Operating wavelength( nm)		1064±5	1075±5	1080±5	
Typ. peak isolation( dB)		38			
Isolation in band at 23℃( dB)		≥30			
Insertion loss at 23℃( dB) （Input 1mw power）		≤2.0	≤1.8	≤1.6	
Insertion loss at 23℃( dB) （Input max. power）		≤2.2	≤2.0	≤1.8	
Polarization dependent loss(For Non -PM)( dB)		≤0.15		/	
Extinction ratio(For PM) ( dB)*		/		≥18（Type B）,≥20（Type F）	
Return loss (Input/Output) ( dB)		≥50			
Fiber type		HI1060(Non-PM) or SM98-PS-U25A(PM)			
Input max. power handling	Average (mW)	500		300	
	Pulse peak(W)	1000			
Operating temperature (℃)		-5 ~ +50			
Storage temperature (℃)		-20 ~ +70			
Dimensions(mm)		5*5*35			

\* Type B: Both axis working, Type F: Fast axis blocked.

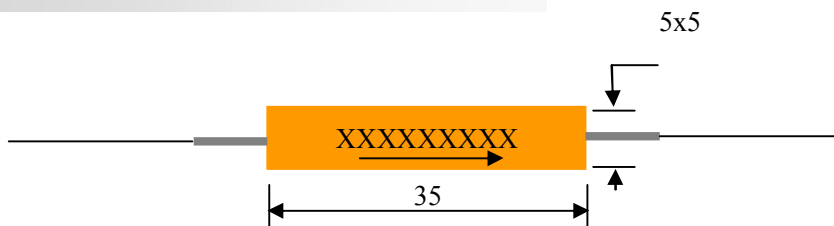
\* Backward power<10% input power .

\* The dimension would be changed when the fiber type be changed

\* Other specifications can be made on customer request

\* Insertion loss of light through fiber cladding is not included in the Insertion loss specification.

## Mechanical Dimension (Unit: mm)



## Ordering Information

HP(M)IIF-XXXX-XXX-X-X-X(X)- X -XX\*XX\*XX-XX

