# Low Insert Loss PMMPC-(6+1)×1

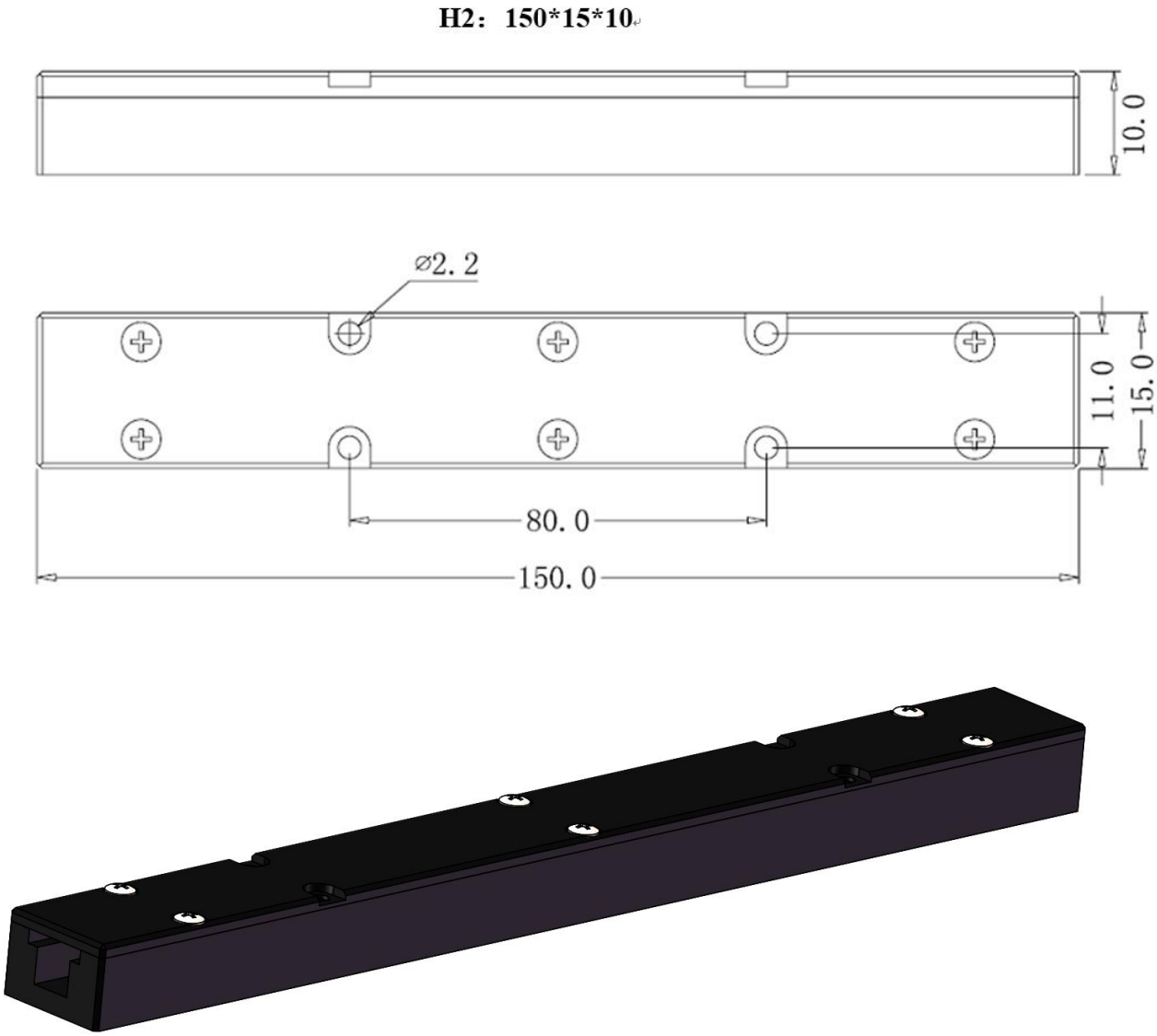
## Description

This (6+1)×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines six pump lasers and one signal channel into one double cladding output fiber. Fiber type can be customized.

## Key Features

- High Signal Transfer Efficiency
- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

## Mechanical Dimension




**Unit: mm**

## Specifications

| Parameters/Test conditions | | | Min | Typ. | Max | Unit | Note |
|---|---|---|---|---|---|---|---|
| 1 | Signal Operating Wavelength | | | 1064 | | nm | Customizable |
| 2 | Pump Operating Wavelength | | | 976 | | nm | Customizable |
| 3 | Pump Fiber | Core Diameter | | 200 | | μm | MM 200/220 0.22NA DC<br>Fiber Code “174”<br>Customizable |
| | | Cladding Diameter | | 220 | | μm | |
| | | Numerical Aperture | | 0.22 | | - | |
| 4 | Signal Fiber | Core Diameter | | 20 | | μm | PM 20/400 DCF 0.065/0.46NA<br>Fiber Code “A24”<br>Customizable |
| | | Cladding Diameter | | 400 | | μm | |
| | | Numerical Aperture | | 0.065/0.46 | | - | |
| 5 | Pump Efficiency | | | 97 | | % | |
| 6 | Signal Insertion Loss | | | 0.15 | | dB | |
| 7 | M2 | | | 1.15 | | - | |
| 9 | Pump Power Handling | | | 300 | | W | Each port |
| | | | | 1800 | | W | Total pump |
| 10 | Signal Power Handling | | | | 2000 | W | |
| 13 | Length | Pump Fiber | | 2 | | m | Customizable |
| | | Signal Fiber | | 2 | | m | Customizable |
| 14 | Operating Environment Temperature | | -5 | | +70 | ºC | |
| 15 | Operating Humidity | | 5 | | 95 | %RH | Not recommend in high humidity for long time. |
| 16 | Storage Temperature | | -20 | | +70 | ºC | |
| 17 | Package Customizable | | | H2 | | - | Handling power is different with PKG |

Note：

(1) Color mark may absorb leaded power, it should be erased after splicing.

(2) Device package must be mounted onto heat sink (active cooling is suggested) with thermal paste.

(3) It is recommended to attach the output fiber tightly to the heat dissipation plate.

## Ordering Information

PN：PMMPC-(6+1)*1-F&B-976/300W-1064-174/A24-A24-2m(Low IL)

Note： F=Forward pump， B=Backward pump.