

## 980-2000nm High Power Polarization-maintaining Single Mode Taper Coupler

### Features

Low insertion loss  
High extinction ratio  
Excellent environmental stability

### Application

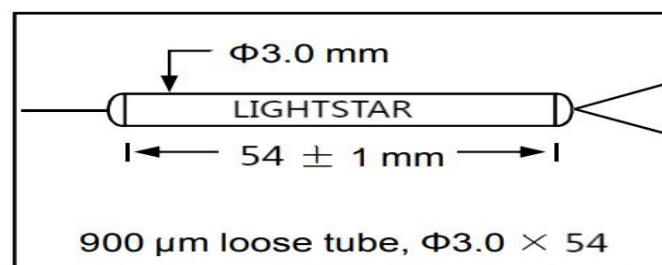
Optical fiber amplifier  
Coherent communication  
Optical fiber gyro

### Specifications

| Parameter                     |               | Unit | Premium                  | A grade | Premium                             | A grade |
|-------------------------------|---------------|------|--------------------------|---------|-------------------------------------|---------|
| Central wavelength            |               | nm   | 1064,1030,980 or Specify |         | 2000,1940,1550,1480,1310 or Specify |         |
| Bandwidth                     |               | nm   | ±20                      |         | ±20                                 |         |
| Splitting ratio               | 50/50         | %    | ±5.0                     | ±6.0    | ±5.0                                | ±6.0    |
|                               | 40/60         | %    | ±4.0                     | ±4.8    | ±4.0                                | ±4.8    |
|                               | 30/70         | %    | ±3.0                     | ±3.7    | ±3.0                                | ±3.7    |
|                               | 20/80         | %    | ±2.5                     | ±3.0    | ±2.5                                | ±3.0    |
|                               | 10/90         | %    | ±2.2                     | ±2.4    | ±2.2                                | ±2.4    |
|                               | 5/95          | %    | ±1.5                     | ±1.7    | ±1.5                                | ±1.7    |
|                               | 3/97          | %    | ±1.1                     | ±1.3    | ±1.1                                | ±1.3    |
|                               | 2/98          | %    | ±0.8                     | ±1.0    | ±0.8                                | ±1.0    |
| Polarization extinction ratio | CR > 10%      | dB   | 18                       | 15      | 20                                  | 17      |
|                               | 10% ≥ CR > 1% | dB   | 14                       | 11      | 16                                  | 13      |
|                               | CR ≤ 1%       | dB   | NA                       | NA      | NA                                  | NA      |
| Additional losses             |               | dB   | 0.8                      | 1.0     | 0.4                                 | 0.6     |
| Minimum return loss           |               | dB   | 50                       |         |                                     |         |
| Power                         |               | W    | 1,3,5,10,20 or Specify   |         |                                     |         |
| Operating temperature         |               | °C   | -5~70                    |         |                                     |         |
| Storage temperature           |               | °C   | -40~85                   |         |                                     |         |
| Fiber type                    |               | -    | PM Fiber                 |         |                                     |         |
| Package dimensions            | Power 5W      | mm   | Ø3.0×54                  |         |                                     |         |
|                               | Power 20W     | mm   | 75×12×8                  |         |                                     |         |

When using the Connector, the processing power is only 1W, the Insertion loss is 0.3dB higher, the return loss is 5dB lower, and the extinction ratio is 2dB lower. The Connector key is aligned with the slow axis.

### Package dimensions



### Ordering information

HPMSMC-①①①①-②-③③-④④-⑤-⑥-⑦-⑧

①①①①: Operating wavelength  
1550=1550nm  
2000=2000nm  
SSSS=Specify

②: Port type  
1=1x2  
2=2x2

③③: Splitting ratio  
01=1%  
05=5%  
SS=Specify

④④: Power  
01=1W  
05=5W  
SS=Specify

⑤: Package dimensions  
C=75×12×8  
D=3×54  
S=Specify

⑥: Pigtail type  
1=250um bare fiber  
2=900um loose tube  
S=Specify

⑦: Length  
H=0.5m  
1= 1.0m  
S=Specify

⑧: Connector  
0=None  
1=FC/UPC  
2=FC/APC  
S=Specify