



Tunable SM Fiber Coupler

I&Optics' tunable single mode fiber coupler can split any input light into two portions by any wanted splitting ratio or mix two input lights in one or two by any wanted ratio. It features flexible various coupling ratio, low excess loss and low PDL due to our unique technology. It can be used in lasers, LiDARs, telecom, sensors, instruments, testing systems and R&D.

Specification

| Parameter | Test Condition | Unit | Value | |
|---------------------------|--|------|------------------------|---------------|
| Port Configuration | - | - | 1x2 | 2x2 |
| Nominal Center Wavelength | - | nm | 980, 1064 or Specify | |
| Wavelength Range | - | nm | +/-20 | |
| Max. Excess Loss | - | dB | 1.0, Typ. 0.8 | 1.2, Typ. 0.9 |
| Nominal Tap Ratio | at Tap Port | % | Tunable from 0.1 to 99 | |
| Max. PDL | at 23°C, CWL | dB | 0.15 | |
| Min. Directivity | Port 3 to Port 2 (1x2) or Port 1/(3) to Port 2/(4) | dB | 50 | |
| Min. Return Loss | at Center Wavelength | dB | 50 | |
| Max. Power Handling Rate | Continuous Wave, Total Power | mW | 200 or Specify | |
| Electrical Tunable Type | - | - | Stepper Motor | |
| Fiber Type | - | - | HI 1060 or Specify | |
| Max. Fiber Tensile Load | - | N | 5 | |
| Operating Temperature | - | °C | -5 to 50 | |
| Storage Temperature | - | °C | -40 to 85 | |

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher, and return loss will 5dB lower. The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

Package Dimensions

Detailed Informations And Dimensions Please Contact Us. Customized Design Is Available Upon Request.

Ordering Informations

TSMFC-①-②-③-④-⑤

① - Center Wavelength

98 - 980nm

06 - 1064nm

SS - Specify

② - Port Configuration

1 - 1x2

2 - 2x2

③ - Connector Type on port 1/2/3/4

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

④ - Fiber Jacket on Port 1/2/3/4

B - Bare Fiber

L - 900um Loose Tube

⑤ - Fiber Length

0.8 - 0.8m