

1103nm Polarization Beam Combiner(Splitter)/Isolator Hybrid



FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

SPECIFICATIONS

| Parameter | Unit | Single Stage | Dual Stage |
|------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Center Wavelength (λ_c) | nm | 1103 | |
| Bandwidth | nm | +/-10 | |
| Peak Isolation (Typ.) | dB | 25 | 40 |
| Isolation ($\lambda_c \pm 5\text{nm}$, 23°C) | dB | ≥ 20 | ≥ 38 |
| Insertion Loss (λ_c , 23°C) | dB | 2.2 | 3.6 |
| Insertion Loss (λ_c , 0-50°C) | dB | ≤ 2.8 | ≤ 4.3 |
| Optical Return Loss (Input/Output) | dB | 50/45 | 50/45 |
| Extinction Ratio | dB | ≥ 20 | |
| Fiber Type of Port 3 | S Type | - | Corresponding SM Fiber |
| | P Type | - | Same Fiber to Port1&2, Slow axis align to Port 1 |
| | Q Type | - | Same Fiber to Port1&2, Slow axis is 45° to Port 1 |
| Fiber Type of Port 1 & Port 2 | - | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) | |
| Fiber Tensile Load | N | 5 | |
| Maximum Optical Power (CW) | mW | 300 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | (\varnothing)5.5x35 |
| | Metal Box | mm | (L)120x(W)12x(H)10 |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 3. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

ORDERING INFORMATION (PN) FHIC=PBC/Isolator Hybrid; FHIS=PBS/Isolator Hybrid.

| | | | | | | | | | | | |
|-------------|--------------------------|----------|----------------------------------|----------|----------------------------------|------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------|----------|------------------------------------------|----------------------------------------------------------------------------------------------------|
| FHIC | NNNN | - | C | - | (C) | C | C | NN | - | CC/CCC | |
| FHIS | <i>Center Wavelength</i> | | <i>Stage</i> | | <i>3rd Port Fiber</i> | <i>Package</i> | <i>Fiber Type</i> | <i>Fiber Sleeve</i> | | <i>Fiber Length</i> | <i>Connector Type</i> |
| | 1103=1103nm | | S= Single Stage D= Dual Stage | | S=S Type P=P Type Q=Q Type | M=Metal Box Blank for SST | 2=PM980 Panda Fiber E=PM1060L Fiber Q=20/130 PMDC Fiber R=25/250 PMDC Fiber | B= Bare fiber L= Loose Tube 2= 2mm Cable 3= 3mm Cable | | 05=0.5m 10=1.0m 15=1.5m 20=2.0m | N=Without Connector FC/APC=FC/APC Connector LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector |