

# 0105 Hybrid Device



## 2x2 WDM Hybrid Isolator (1480 nm), 1%/99%

The H1004-S is a 2x2 1480 nm, 1%/99% hybrid isolator. This product has an extremely low insertion loss, high isolation, and high return loss. This product offers an integrated solution for EDFA application by combining more functions into a very compact package.

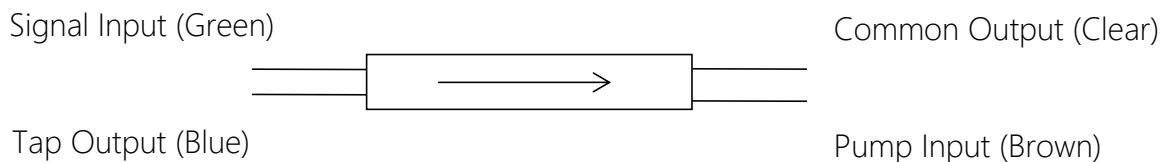
### FEATURES

- Wide Operating Wavelength Range
- Low Insertion Loss
- Epoxy Free on Optical Path
- High Channel Isolation
- Ultra Low PDL & PMD
- High Stability and Reliability

### USE IN

- Fiber Optic Amplifiers
- HFC Fiber Optic Links
- WDM Systems
- Fiber Optic Instruments
- Transmitters and Fiber Lasers
- Laboratory R&D

### FUNCTIONAL DIAGRAM



Signal: 1530 nm to 1563 nm, Pump: 1460 nm to 1490 nm	
Insertion Loss (Signal Path)	1.1 dB max.
PDL	0.15 dB max.
Insertion Loss (Tap Path)	19 dB min.; 21 dB max.
Insertion Loss (Pump Path)	0.6 dB max.
Return Loss (All Path)	50 dB min.
Isolation (1530 nm)	30 dB min.
Isolation (1563 nm)	30 dB min.
Directivity (Pump Input to Tap, 1480 nm)	85 dB
Directivity (Signal Output to Tap, 1550 nm)	70 dB