980/1550nm IWDM Hybrid Device Datasheet

Perfect for EDFA system, often used in aviation, aerospace, undersea and other military fiber engineering.

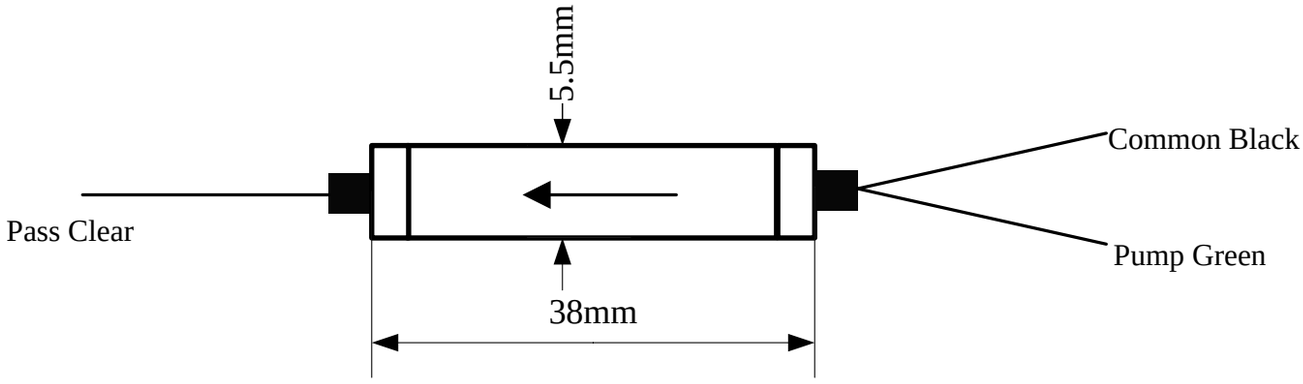
• Description

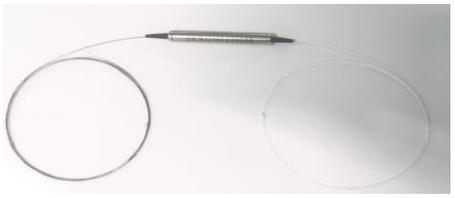
The 980/1550nm Integrated Wavelength Division Multiplexing (IWDM) hybrid device is a type of optical component that combines the 980nm and 1550nm wavelengths into a single output fiber. This device is commonly used in optical communication systems where both 980nm and 1550nm wavelengths are required for transmission, such as in optical amplifiers and pump lasers. OPTICO offers small or ultra-mini IWDM hybrid devices with high optical stability and reliability, as well as form factors that can be customized.

• Advantages

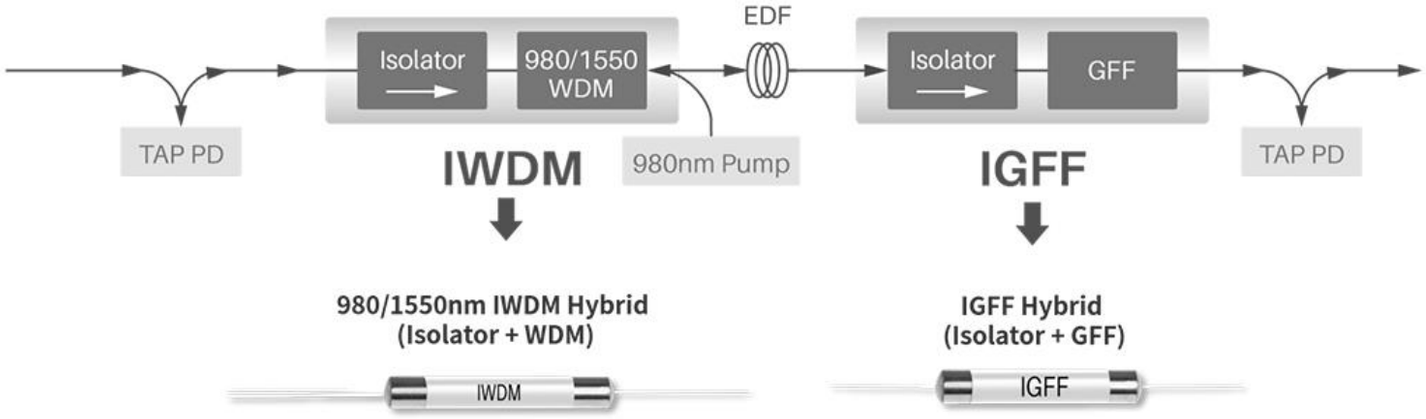
- High channel isolation
- High reliability and stability
- CE/ISO/ROHS √
- High reliability and stability
- Lower insertion loss
- High precision instrument, integrated design
- Customizable package forms are available
- Ultra-low center wavelength deviation

• Structure Diagram(Unit: mm)





- Ideal for Lab application:



- Specifications:

Parameters	Value	Remarks
Pass Wavelength(nm)	1528-1565	/
Insertion Loss for Pass Channel(dB)	≤0.9	0~70℃: Actual test value ≤0.85dB
Pump Wavelength(nm)	965~995	
Insertion loss for Pump channel (dB)	≤0.6	0~70℃: Actual test value ≤0.4dB
Isolation(dB)	≥21	0~70℃: 1528-1565nm
Pass channel wavelength isolation @Pump wavelength(Db)	≥15	
PDL(dB)	≤0.1	
Directivity(dB)	≥55	
RL(dB)	≥50	
Power Handing(mW)	500	
Fiber type	Pump and Com port: Corning HI1060,Pass port: Corning SMF-28E	
Dimension(mm)	Φ5.5*38/Φ3.0*30/Φ3.0*22/Φ2.5*22	
Temperature(℃)	-40~+85	

- PN number:OP-IWDM-1550/980-B-5.5*38-28E/HI1060-1-0-N