

# 0105 Hybrid Device

H5000-P



## LPF+Isolator+Tap Coupler Hybrid

The hybrid device is a combination of a tap coupler, LPF and an isolator in a compact package. All input and output fibers are polarization maintaining. This product has a low insertion loss, a very stable tap-coupling ratio, 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

- Low Insertion Loss
- High Return Loss
- High Isolation
- High Stability and Reliability

### USE IN

- EDFA
- Pump Laser
- Optics Cutting
- Research

Stage	Single	Dual
Signal Wavelength Range	1040 nm to 1090 nm	
Excess Loss, $\lambda_c$ , @23°C (Input to Output)	2.5 dB max.	3.5 dB max.
Signal Isolation, $\lambda_c$ , @23°C (Output to Input)	31 dB min.	45 dB min.
Isolation for Channels	Signal Channel	25 dB
	Pump Channel	12 dB
Tap Ratio	1% to 50%	
Pump Wavelength Range	960 nm to 990 nm	
Insertion Loss (Pump Channel)	0.7 dB max.	
Extinction Ratio	20 dB min.	
Return Loss	50 dB min.	
Power Handling	300 mW max.	
Tensile Load	5 N max.	
Operating Temperature	-5°C to +50°C	
Storage Temperature	-40°C to +85°C	
Fiber Type	PM Fiber	
Dimensions	5.5x5.5x35 mm	

**Order notes to our customers:** The default parameters are as follows. For special needs, please contact sales.

**1) Connector FC/APC, 900  $\mu$ m, 1 m by default for all devices except for high power devices.**

**2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.**