

Hybrid Tap/WDM Isolator

AFOP hybrid tap/wdm isolator is a combination of a wavelength division multiplexer tap coupler and an isolator in a compact package. This product has an extremely low insertion loss, and a very scalable 5% tap-coupling ratio. AFOP hybrid tap/wdm isolator is ideal for fiber optic amplifier applications.



APPLICATIONS

- EDFA
- WDM & DWDM Systems
- Fiber Optic Instruments
- Transmitters & Fiber Laser
- Performance Monitoring

FEATURES

- Wide Operating Wavelength
- Wide Temperature Range
- Low Insertion Loss & High Isolation
- Compact Size
- Epoxy-Free in Optical Path

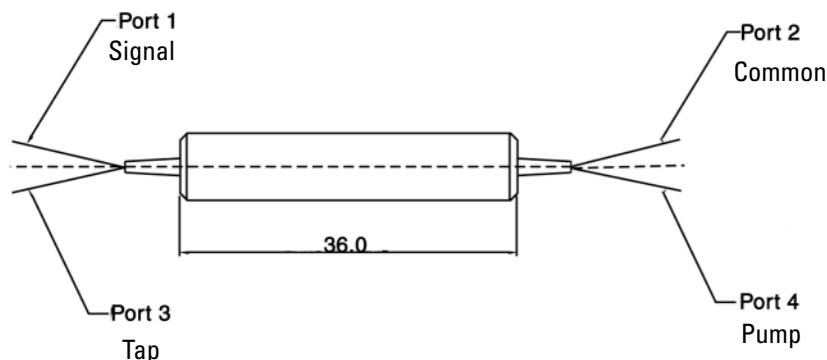
SPECIFICATIONS - HYBRID TAP/WDM ISOLATOR

Parameters

	Single Stage			Dual Stage		
	Minimum	Typical	Maximum	Minimum	Typical	Maximum
Center Wavelength (λ_c)		1550/980 nm			1550/980 nm	
Tap Ratio		5% or Customized			5% or Customized	
Signal Wavelength (λ_s)		1530 - 1570 nm			1530 - 1570 nm	
Pump Wavelength (λ_p)		970 - 980 nm			970 - 980 nm	
Isolation (λ_c , 23°C, All SOP)	28 dB			45 dB		
Cross Talk (Single Port, λ_p , 23°C, All SOP)	28 dB			28 dB		
Cross Talk (Single Port, λ_s , 23°C, All SOP)	17 dB			17 dB		
Insertion Loss (Single Port, λ_s , 0-70°C, All SOP)			1.4 dB			1.5 dB
Insertion Loss (Single Port, λ_p , 0-70°C, All SOP)			0.6 dB			0.6 dB
Insertion Loss (Tap Port, λ_s , 0-70°C, All SOP)		12-14 dB			12-14 dB	
WDL			0.5 dB			0.5 dB
PDL			0.10 dB			0.10 dB
PMD			0.1 ps			0.1 ps
Directivity	55 dB			55 dB		
Return Loss (Input/Output)	50 dB			50 dB		
Power Handling			500 mW			500 mW
Operating Temperature		0°C to + 70°C			0°C to + 70°C	
Storage Temperature		- 40°C to + 85°C			- 40°C to + 85°C	

PACKAGE DIMENSIONS:

(Φ)5.5 mm x (L) 36 mm ■ Fiber Type: Pump Port, Common Port: Corning Hi 1060; Single Port, Tap Port: SMF-28
 ■ Pigtail Length: 1 Meter (Standard)



Hybrid Tap/WDM Isolator

ORDERING INFORMATION:

HB	N	-	N	NN	-	N	C	NNN
	↓		↓	↓		↓	↓	↓
	Type		Wavelength	Tap Ratio		Fiber Type	Connector*	000: Standard
	1: Single Stage 2: Dual Stage		55: 1550 nm	05: 5%		0: 250 μm Bare Fiber 1: 900 μm Loose Tube	A: None L: LC/PC P: FC/PC Q: FC/APC S: SC/PC T: SC/APC U: MU/PC	Running number used for special types or custom made

Note:

* Specifications do not include connector loss.