

Mini 980/1550nm WDM+Isolator+TAP Hybrid Device

Auxora's 980/1550 WDM/TAP/Isolator hybrid is a combination of a 980/1550 nm WDM, a TAP coupler and an optical isolator. The device features low IL, high isolation, high return loss and low PDL, as well as stable tap-coupling ratio. By combining three functions into a small housing, the packaging dimension can be very compact, which enables it to be an ideal solution to EDFA applications.



FEATURES

- Compact Size
- Low Insertion loss & High Isolation
- Ultra Low PDL&PMD
- Highly Stable & Reliable
- Telcordia GR-1221/1209 Compliant
- Epoxy-Free Optical Path

APPLICATIONS

- EDFAs

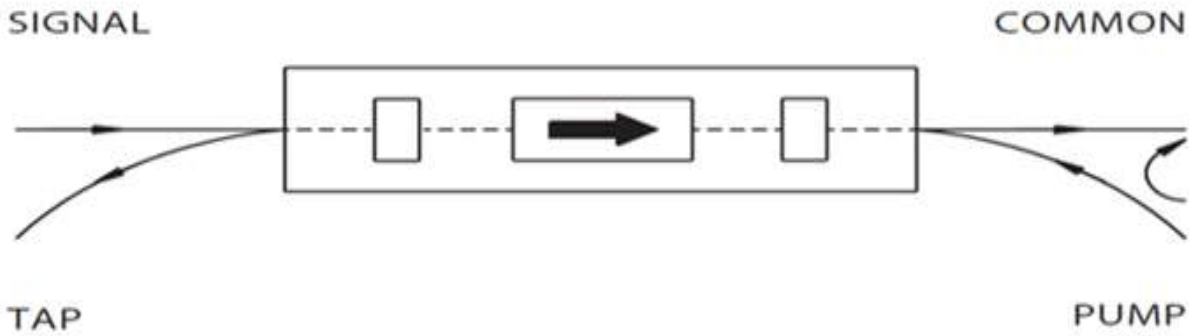
SPECIFICATIONS

Parameters		Single Stage	Dual Stage	
Signal Channel Wavelength Range(λ_s) (nm)		1528~1565 or 1570~1604		
Pump Channel Wavelength Range(λ_p) (nm)		965~995		
Insertion Loss (dB) (Over Wavelength Range, 0~70°C, all SOP)	Pump Channel	≤ 0.6	≤ 0.6	
	Signal Channel	1% Tap	≤ 1.4	≤ 1.5
		2% Tap	≤ 1.4	≤ 1.5
		5% Tap	≤ 1.4	≤ 1.5
		10% Tap	≤ 1.4	≤ 1.5
	TAP Port	1% Tap	19.2 ~ 21	
		2% Tap	16.2 ~ 18	
		5% Tap	12.2 ~ 14	
10% Tap		9.6 ~ 10.8		
Channel Isolation (dB) (Over λ_s , -0~70°C, all SOP)		≥ 20	≥ 35	
Isolation (Pump Channel @ λ_s) (dB)		≥ 15		
Isolation (Signal Channel @ λ_p)(dB)		≥ 25		
Polarization Dependent Loss (dB)		≤ 0.1		
Polarization Mode Dispersion (ps)		≤ 0.05	≤ 0.05	
Wavelength Dependent Loss (dB)		≤ 0.5		
Return Loss (dB)		≥ 50		
Directivity (dB)		≥ 50		
Optical Power Handling (mW)		≤ 500		
Operating Temperature (°C)		0 ~ 70		
Storage Temperature (°C)		-40 ~ 85		
Fiber Type		HI1060 Flex for COM & Pump Ports, G.657A for Signal Port		
Packaging Dimension (mm)		$\Phi 5.5 \times L34$ (L40 for 900um loose tube) Mini Size: $\Phi 3.0 \times L25$		

NOTES:

- 1) All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.
- 2) PMD and chromatic dispersion values are guaranteed by design.
- 3) IL is 0.3 dB higher, RL is 5 dB lower for each connector added

Packing Dimensions(mm)



Ordering Information: (e.g.AWITH-0159S10-10101010-0000)

AWITH-	XX	XX	X	X	X	Fiber Length				Connector							
						XX	XX	XX	XX	Com	Tap	Pump	Signal	Com	Tap	Pump	Signal
						Com	Tap	Pump	Signal								
	Tao Ratio	Wavelength Range	Stage	Package	Fiber Jacket												
	01=1%	59=T1550/R980nm	S=Single Stage	1=5.5x34	0=250um Bare fiber	10=1.0m	10=1.0m	10=1.0m	10=1.0m	0=None	0=None	0=None	0=None				
	02=2%	69=T1585/R980nm	D=Dual Stage	2=5.5x40	1=900um loose tube	12=1.2m	12=1.2m	12=1.2m	12=1.2m	1=FC/PC	1=FC/PC	1=FC/PC	1=FC/PC				
	05=5%	XX= Customized		4=3.0x25	X= customized	2=FC/APC	2=FC/APC	2=FC/APC	2=FC/APC				
	10=10%			X=Customized		15=1.5m	15=1.5m	15=1.5m	15=1.5m	3=SC/PC	3=SC/PC	3=SC/PC	3=SC/PC				
						NA=N/A	NA=N/A	NA=N/A	NA=N/A	4=SC/APC	4=SC/APC	4=SC/APC	4=SC/APC				
						XX=Customized	XX=Customized	XX=Customized	XX=Customized	5=LC/UPC	5=LC/UPC	5=LC/UPC	5=LC/UPC				
										6=LC/APC	6=LC/APC	6=LC/APC	6=LC/APC				
										X= customized	X= customized	X= customized	X= customized				