

Mini 980/1550nm WDM+Isolator Hybrid Device

Auxora's Mini 980/1550 WDM/Isolator hybrid is a combination of a 980/1550 nm WDM and an optical isolator. The device features low IL, high isolation, high return loss and low PDL. By combining two functions into an ultra compact package, the packaging dimension can be approx. $\phi 3.0 \times 25 \text{mm}$, which enables it to be an ideal solution to EDFA application.



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	≤ 0.8	≤ 0.9
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)		≤ 0.3	
Return Loss (dB)		≥ 50	
Directivity (dB)		≥ 50	
Optical Power Handling (mW)		≤ 500	
Operating Temperature (°C)		0 ~ 70	
Storage Temperature (°C)		-40 ~ 85	
Humidity		5% ~ 95%	
Fiber Type		OFS 980-20 for COM & Pump Ports, SMF-28e for Signal Port or Customized	
Packaging Dimension (mm)		$\phi 3.0 \times 25$ (L)	

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)

Forward Type



Backward Type



Ordering Information: (e.g.AWIH-1259SF40-101010-000)

AWIH-	XX	XX	X	X	X	X	-	XX	XX	XX	-	X	X	X						
															Fiber Length			Connector		
															Com	Pump	Signal	Com	Pump	Signal
	12=1x2	59=T1550/R980nm	S=Single Stage	F=Forward Type	4=3.0x25	0=250um Bare fiber		10=1.0m	10=1.0m	10=1.0m		0=None	0=None	0=None						
	XX=Customized	69=T1585/R980nm	D=Dual Stage	B=Backward Type	X=Customized	1=900um loose tube		12=1.2m	12=1.2m	12=1.2m		1=FC/PC	1=FC/PC	1=FC/PC						
		XX= Customized				X= customized			2=FC/APC	2=FC/APC	2=FC/APC						
								15=1.5m	15=1.5m	15=1.5m		3=SC/PC	3=SC/PC	3=SC/PC						
								NA=N/A	NA=N/A	NA=N/A		4=SC/APC	4=SC/APC	4=SC/APC						
								XX=Customized	XX=Customized	XX=Customized		5=LC/UPC	5=LC/UPC	5=LC/UPC						
												6=LC/APC	6=LC/APC	6=LC/APC						
												X= customized	X= customized	X= customized						