100G DWDM Device

Auxora's Dense Wavelength Division Multiplexer (DWDM) is based on TFF (thin film filter) platform, it features ultra-low insertion loss, high isolation, super thermal stability and excellent reliability. The device is Telcordia GR-1221/1209-CORE compliant, thus enabling it to be used for wavelength add/drop in telecommunication network systems. Auxora can provide customized designs to meet specialized feature applications.

FEATURES

- Low insertion loss
- High channel isolation
- Exceptional reliability and stability
- Epoxy free optical path
- Telcordia GR-1221 and GR1209 compliant

APPLICATIONS

- Access networks
- Metro WDM systems
- Fiber optic instruments
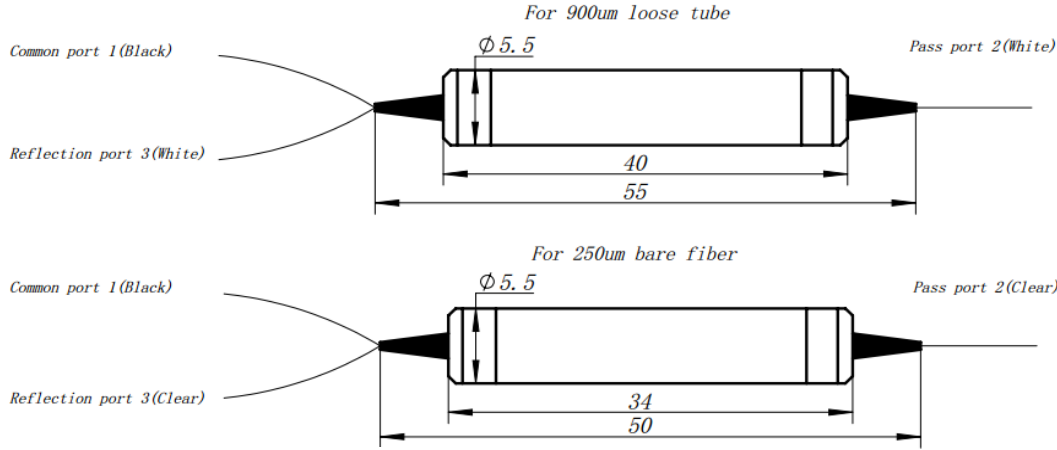- Telecommunications
- Add/Drop channels

SPECIFICATIONS

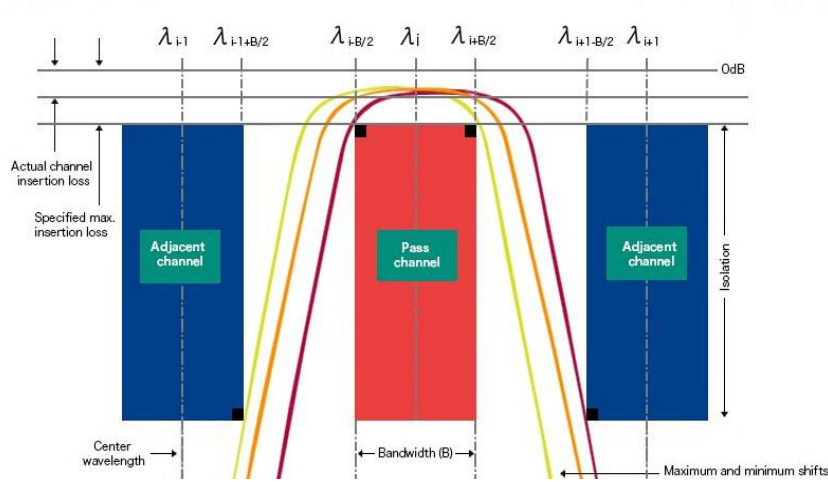| Items		Unit	Parameters
Normal Information	Operating Wavelength	nm	1460-1620
	Channel Spacing	GHz	100GHz ITU grid
	Channel Passband (@0.5dB)	nm	>0.22
Port of Transmission (Port1 => Port2)	Transmission Insertion Loss	dB (Max.)	0.8
	Adjacent Channel Isolation	dB (Min.)	25
	Non-Adjacent Channel Isolation	dB (Min.)	40
	Passband Ripple	dB (Max.)	0.3
	Polarization Dependent Loss	dB (Max.)	0.1
Port of Reflection (Port1 => Port3)	Reflection Insertion Loss	dB (Max.)	0.4
	Reflection Channel Isolation	dB (Min.)	12
	Reflection Band Ripple	dB (Max.)	0.3
	Polarization Dependent Loss	dB (Max.)	0.1
Others	Directivity	dB (Min.)	50
	Return Loss	dB (Min.)	50
	Polarization Mode Dispersion	Ps (Max.)	0.2
	Power Handling	mW(Max.)	500
	Tensile Load	N(Max.)	5
	Operating Temperature	℃	0~70
	Storage Temperature	℃	-40~85
	Package Dimensions	mm	Φ5.5xL34（L40 for 900um loose tube）
	Fiber type	--	SMF-28e+ or ITU-T G657.A

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)

For 900um loose tube

Common port 1(Black)

Pass port 2(White)

Reflection port 3(White)

$\phi 5.5$

40

55

For 250um bare fiber

Common port 1(Black)

Pass port 2(Clear)

Reflection port 3(Clear)

$\phi 5.5$

34

50

Spectrogram(e.g. typical curve)

λ_{i-1} $\lambda_{i-1+B/2}$ $\lambda_{i-B/2}$ λ_i $\lambda_{i+B/2}$ $\lambda_{i+1-B/2}$ λ_{i+1}

0dB

Actual channel insertion loss

Specified max. insertion loss

Adjacent channel

Pass channel

Adjacent channel

Isolation

Center wavelength

Bandwidth (B)

Maximum and minimum shifts

Ordering Information: (e.g.ADD-112202061-101010-555)

ADD-	X	XX	XX	X	XX	X	-	XX	XX	XX	-	X	X	X
	WDM Type	Port Configuration	Center Wavelength	Package	Fiber Type	Fiber Jacket		Fiber Length				Connector		
								Common	Pass	Reflect		Common	Pass	Reflect
	1=100G	11=1x1	15=C15	1=5.5x34	06=G657.A1	0=250um Bare fiber		10=1.0m	10=1.0m	10=1.0m		0=None	0=None	0=None
		12=1x2	16=C16	2=5.5x40	07=G657.A2	1=900um loose tube		12=1.2m	12=1.2m	12=1.2m		1=FC/UPC	1=FC/UPC	1=FC/UPC
		XX=Customized	……	3=4.0x30	XX=Customized	2=2.0mm Cable		……	……	……		2=FC/APC	2=FC/APC	2=FC/APC
			68=C68	X=Customized		3=3.0mm Cable		15=1.5m	15=1.5m	15=1.5m		3=SC/UPC	3=SC/UPC	3=SC/UPC
			69=C69			X=Customized		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