CWDM Device

Auxora's CWDM device demonstrates low loss and reliable performance. The device possesses broad pass bands and high isolation, ideal for functioning with inexpensive and uncooled lasers, which enables it to be low cost product suitable for CATV and metro/access network applications. Easily customizable, Auxora's CWDM device can be configured by standard packaging and connector options.

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
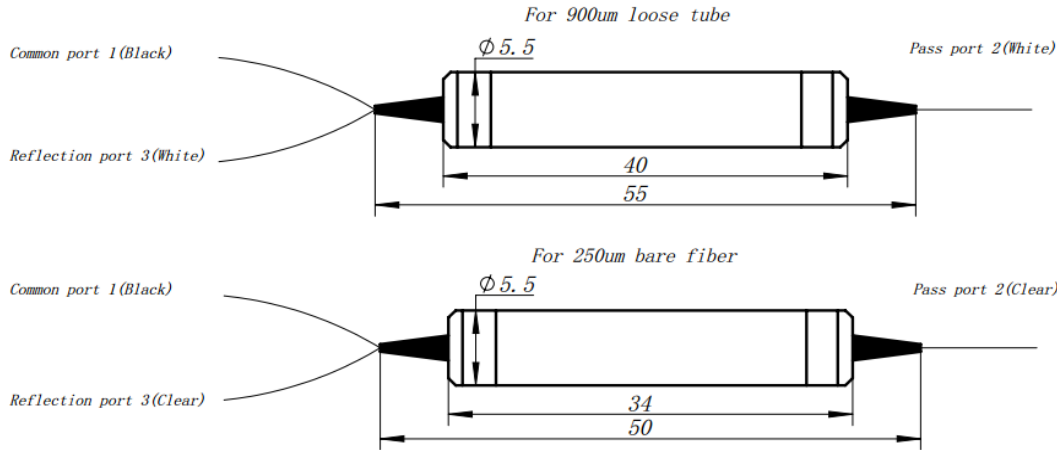- Fiber optic instruments
- Telecommunications
- Add/Drop channels

SPECIFICATIONS

Items		Unit	Parameters
Normal Information	Operating Wavelength	nm	1260-1620
	Channel Spacing	nm	20nm ITU Grid
Port of Transmission (Port1 => Port2)	Channel Passband	nm	$\lambda c \pm 6.5$
	Transmission Insertion Loss	dB	≤ 0.6
	Adjacent Channel Isolation	dB	≥ 30
	Non-Adjacent Channel Isolation	dB	≥ 45
	Passband Ripple	dB	≤ 0.3
	Polarization Dependent Loss	dB	≤ 0.1
Port of Reflection (Port1 => Port3)	Reflection Insertion Loss	dB	≤ 0.4
	Reflection Channel Isolation	dB	≥ 14
	Reflection Band Ripple	dB	≤ 0.20
	Polarization Dependent Loss	dB	≤ 0.1
Others	Directivity	dB	≥ 50
	Return Loss	dB	≥ 50
	Polarization Mode Dispersion	ps	≤ 0.20
	Power Handling	mW	≤ 500
	Tensile Load	N	≤ 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

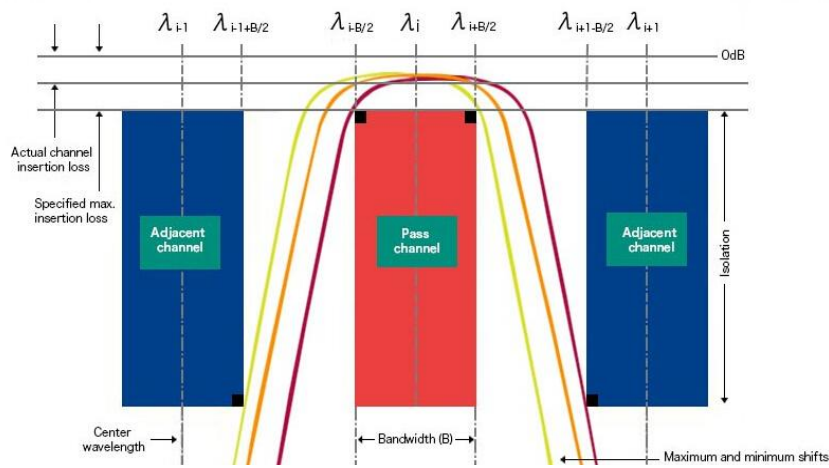**NOTES:**

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)
Φ5.5
40
55

For 250um bare fiber

Common port 1(Black)
Pass port 2(Clear)
Reflection port 3(Clear)
Φ5.5
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.ACD-112272061-101010-555)

ACD-	X	XX	XX	X	XX	X	-	XX	XX	XX	-	X	X	X
	ITU	Port Configuration	Wavelength	Package	Fiber Type	Fiber Jacket		Fiber Length				Connector		
								Common	Pass	Reflect		Common	Pass	Reflect
	0=0 Serial	11=1x1	27=1270/1271	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
	1=1 Serial	12=1x2	29=1290/1291	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
		24=2x4	……	3=4.0x30	XX=Customized	2=2.0mm Cable		……	……	……		2=FC/APC	2=FC/APC	2=FC/APC
		XX=Customized	59=1590/1591	X=Customized		3=3.0mm Cable		15=1.5m	15=1.5m	15=1.5m		3=SC/UPC	3=SC/UPC	3=SC/UPC
			61=1610/1611			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