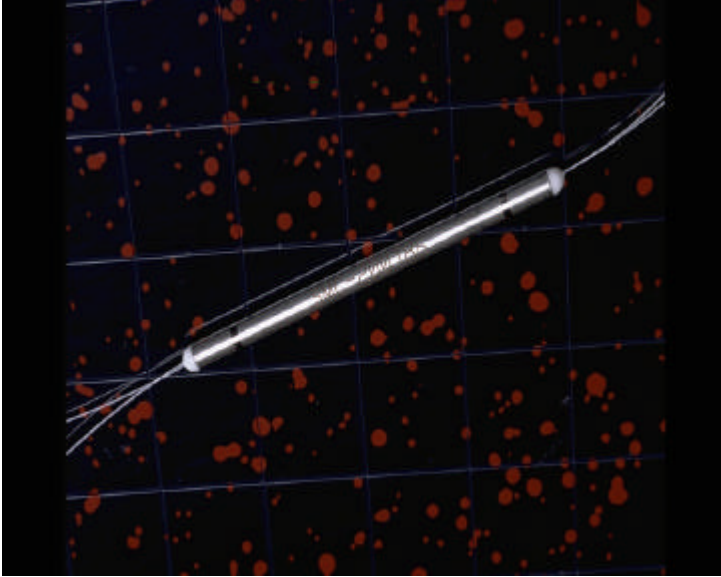


STANDARD SINGLEMODE WDMs W-NS

DESCRIPTION



FOCI's Standard Single Mode WDMs allow multiplication of bandwidth without additional fibers or higher speed electronics. They are designed to increase carrying capacity by combining two wavelengths onto a single fiber, e.g. audio and video signals, or splitting wavelengths onto separate fibers.

With its innovative Fused Biconical Taper (FBT) process, FOCI's W-NS series Standard Single Mode WDMs have proven to provide high isolation, low insertion loss and high port isolation over a wide range of temperatures and wavelengths. These exceptional characteristics make them suitable for all applications demanding critical performance.

Operable in 1310/1550nm, 1310/1650nm, 1300/1550nm, 1320/1625nm, 1550/1625nm or 1550/1650nm wavelength ranges, and available in a wide variety of packaging configurations. Various types of pigtailling and connector terminations are available to meet your requirements.

FEATURES

- Ultra high isolation
- High port isolation
- Custom defined specifications
- Low insertion loss
- Environmentally stable

APPLICATIONS

- Telecommunications
- Local area network
- Fiber to the home
- CATV
- Fiber optic testing
- Testing instruments
- RFTS

STANDARD SINGLEMODE WDMs

PERFORMANCE SPECIFICATIONS

ITEM		Standard Singlemode WDMs								
Operating Wavelength, nm		1310/1550	1310/1625	1310/1650	1521/1561	1550/1650	1550/1625	1501/1541	1511/1551	1533/1557
Typical Insertion Loss, dB		0.25	0.25	0.25	0.5	0.35	0.5	0.5	0.5	0.4
Isolation, dB (over temperature -40 ~ +75°C), (all SOP, at specified wavelength)		>16			>10	>14	>10	>10	>10	>17.5
Bandwidth, nm		± 20			± 5	± 5	± 5	± 5	± 5	± 1.5
Polarization Stability, dB		<0.1			<0.3	<0.2	<0.2	<0.3	<0.3	<0.3
Thermal Stability, dB		<0.2			<0.3	<0.2	<0.2	<0.3	<0.3	<0.3
Operating Temperature, °C		-40 ~ +85 ^(*)								
Storage Temperature, °C		-55 ~ +85								
Package Options (for different pigtailling)	1. coated fiber (250µm)	T2, MA	T2, MA	T2, MA	T6, MA	T4, MA	T4, MA	T6	T6	T6
	2. loose tube (900µm)	TB, MA	TB, MA	TB, MA	TF, MA	TD, MA	TD, MA	TF, MA	TF, MA	TF, MA
	3. PVC cable (3.0mm)	A1, MA	A1, MA	A1, MA	MA	A4, MA	A4, MA	MA	MA	MA

Note : 1. The packaging option codes are explained in Packaging Dimensions below.
2. * -20 ~ +70°C for PVC cable.

PACKAGING DIMENSION

The dimensions of various packaging options are given below. For further detailed mechanical drawings, please refer to Appendix A :

- T2Ø3.0 x 53 (mm)
- T4Ø3.0 x 76 (mm)
- T6Ø3.0 x 88 (mm)
- TB.....Ø3.8 x 70 (mm)
- TD.....Ø3.8 x 95 (mm)
- TFØ3.8 x 105 (mm)
- A1.....101 x 12 x 10 (mm)
- A4.....120 x 12 x 10 (mm)
- MA.....Interrack 4U

ENVIRONMENTAL RELIABILITY TEST

The performance of the WDMs has been carefully designed to meet the toughest Bellcore standards

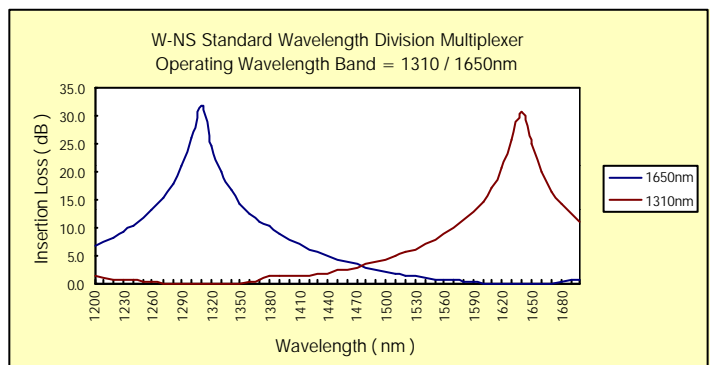
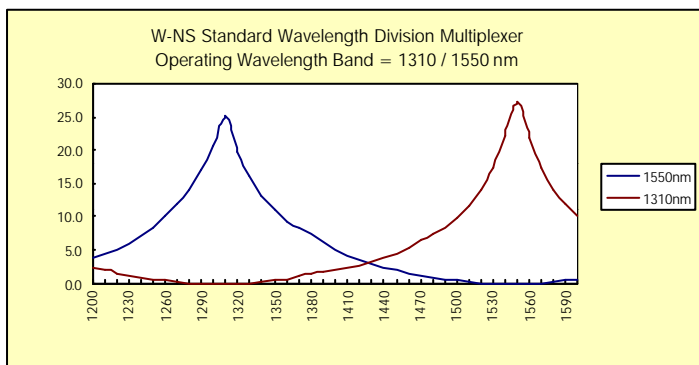
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in the tests of :

- OPTICAL CHARACTERISTICS
- VIBRATION TEST
- THERMAL CYCLING
- IMPACT RESISTANCE
- SALT SPRAY EROSION
- THERMAL AGING
- HUMIDITY RESISTANCE
- OTHERS

- High Temperature Storage Test85°C for 5,000hours
- Low Temperature Storage Test-40°C for 5,000hours
- Thermal Cycling Test-40°C / 75°C for 500 cycles
- Fiber Pulling Test 0.23Kg for 250µm fiber and 900µm loose tube
1.36Kg for jacketed cable
- Water Immersion Test43°C, pH = 5.5, 340hours
- Vibration Test 10 ~ 2,000Hz random, 20G, 3 axes
- Thermal Shock TestΔT= 100 °C

SPECTRAL PERFORMANCE



STANDARD
SINGLEMODE WDMS

ORDERING INFORMATION

W - NS - □□ - XX - 1 - □□□□ - □□ - □□ / □□

Fiber Type

- A.....Corning SMF-28™
- X.....Others, please specify

Package Option (for both ends)

- C.....T2/T3 with coated fiber (250µm)
- D.....MA with coated fiber
- L.....TB/TD with loose tube cable (900µm)
- M.....MA with loose tube cable
- Q.....A1/A4 with PVC 3.0mm cable
- R.....MA with PVC 3.0mm cable
- S.....MA with adaptors
- X.....Others, please specify

Port Number

- 12.....1 x 2
- 22.....2 x 2

Pigtail Length (for each port)

- 10.....1 meter
- 20.....2 meter
- 00.....Modulized
- 05.....0.5 meter
- 15.....1.5 meter
- XX.....Others, please specify

Wavelength

- 35.....1310/1550nm
- 40.....1501/1541nm
- 42.....1521/1561nm
- 3H.....1310/1625nm
- 36.....1310/1650nm
- 41.....1511/1551nm
- 56.....1550/1650nm
- 5H.....1550/1625nm

Connector Type (for both ends)

- FC.....FC type
- SC.....SC type
- ST.....ST type
- XX.....Others, please specify
- AP.....FC/APC type
- AS.....SC/APC type
- NC.....None