Luminent
Bringing Communications to Light™

Singlemode Wideband Coupler

C-WS

Features

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

Applications

- Telecommunications
- Local area network
- Fiber to the home
- Video transmission
- Fiber optic sensing
- Testing instruments
- Wide area networks
- Point to point systems
- CATV

Performance Specifications

Item		Singlemode Wideband Coupler	
Operating Wavelength, nm		1310 ± 40 or 1550 ± 40 or 1590 ± 10	
Grade		Super (S)	High (H)
Typical Excess Loss, dB		0.1	0.2
Uniformity, dB (50:50)		0.6	1
Thermal Stability, dB (peak-peak)		< 0.2	< 0.3
Polarization Stability, dB		< 0.10	< 0.15
Port Configuration		1 x 2 or 2 x 2	
Coupling Ratio		1:99 to 50:50, (50:50 standard)	
Insertion Loss, dB		Please refer to the Coupling Ratio vs. Insertion Loss chart	
Directivity, dB		>50 (1 x 2), >60 (2 x 2)	
Reflectance, dB		<-55	
Operating Temperature, °C		-40 to +85(*)	
Storage Temperature, °C		-55 to +85	
Package Options (for different pigtailing)	1. coated fiber (250μm)	T5, MA, MB	
	2. loose tube (900μm)	TA, MA, MB	
	3. PVC cable (3.0mm)	A1, MA, MB	

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

Coupling Ratio vs. Insertion Loss

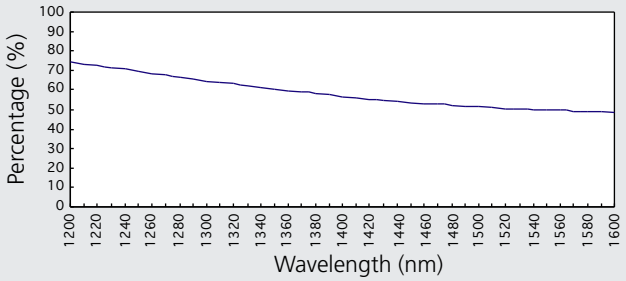
Coupling Ratio (%)	Insertion Loss (dB)	
	Super Grade (S)	High Grade (H)
50 / 50	3.4	3.6
40 / 60	4.4 / 2.5	4.7 / 2.7
30 / 70	5.8 / 1.9	6.0 / 1.9
20 / 80	7.6 / 1.1	7.9 / 1.2
11/ 90	11.0 / 0.63	12.9 / 0.8
5 / 95	14.6 / 0.4	18.4 / 0.5

Singlemode Wideband Coupler

C-WS

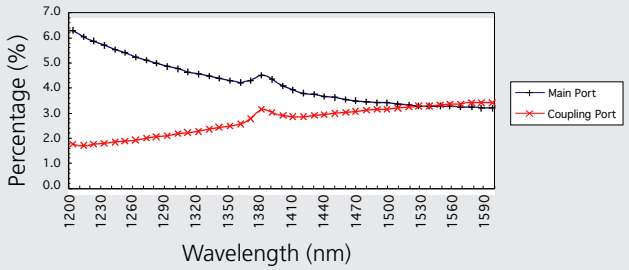
C-WD Dual Singlemode Wideband Coupler

Operating Wavelength:1550nm,Coupling Ratio :50/50%



C-WD Dual Singlemode Wideband Coupler

Operating Wavelength:1550nm,Coupling Ratio :50/50%



ORDERING INFORMATION

C - WS- AX-XX-X-XXXX-XX-XX/XX

Pigtail Type (for both ends)
- C ..... T5 with coated fiber
- D ..... MA/MB with coated fiber
- L ..... TA with loose tube cable
- M ..... MA/MB with loose tube cable
- Q ..... A1 with PVC 3.0mm cable
- R ..... MA/MB with PVC 3.0mm cable
- S ..... MA/MB with adaptors
- X ..... Others, please specify

Coupling Ratio
- 00 ~ 50 ..... Please specify.

Grade
- S ..... Super
- H ..... High

Port Number
- 12 ..... 1 X 2
- 22 ..... 2 X 2

Pigtail Length (for each port)
- 10 ..... 1 meter
- 20 ..... 2 meter
- 00 ..... Modulized
- 0.5 ..... 0.5 meter
- 1.5 ..... 1.5 meter
- XX ..... Others, please specify

Wavelength
- 13 ..... 1310nm
- 15 ..... 1550nm

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

Legal Notice