

CHAPTERS

Fiber Patch
Cables

Bare Fiber

Fiber
OptomechanicsFiber
ComponentsTest and
Measurement

SECTIONS

Collimators

Couplers

WDMs

RGB Combiner

Circulators

Fiber Isolators

Faraday Mirrors

Fiber Attenuators

Polarization
Controllers

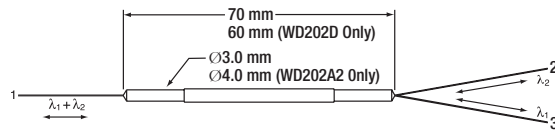
Optical Switches

Mating Sleeves

Terminating
Connectors

Termination

Wavelength Division Multiplexers (WDM)



Please refer to our website for complete models and drawings.

Features

- 300 mW Maximum Power
- Available With or Without 2.0 mm Narrow Key FC/PC, or FC/APC Connectors
- Custom Connector Options Available
- Bidirectional

Wavelength Division Multiplexers (WDMs) are used to combine or separate two different single mode signals. Available in versions capable of combining or separating five different wavelength combinations (660/1310 nm, 980/1550 nm, 1310/1550 nm, 1480/1550 nm, and 1600/1960 nm), these multiplexers are an ideal solution for combining pump and signal powers or for combining/separating telecom signals.

Based on the proven Fused Bionic Taper (FBT) technology, these multiplexers provide broad operating wavelengths and low insertion loss.

Performance Specifications

| ITEM # | WD202A2 | WD202A | WD202B | WD202C | WD202D |
|-----------------------------|----------------------|---------------|--------------|--------------|--------------|
| Operating Wavelength | 660/1310 nm | 980/1550 nm | 1310/1550 nm | 1480/1550 nm | 1600/1960 nm |
| Insertion Loss (Max)* | 0.4 dB | 0.55 dB | 0.5 dB | 0.95 dB | 0.80 dB |
| Isolation (Min) | 19 dB | | 16 dB | 10 dB | 15 dB |
| Polarization-Dependent Loss | <0.1 dB | | | <0.3 dB | <0.2 dB |
| Wavelength Bandwidth | ±40.0 nm @ 1310 nm | ±10.0 nm | ±20.0 nm | ±5.0 nm | ±20.0 nm |
| Directivity | 36 dB | 50 dB | | | 45 dB |
| CW Power (Max) | 300 mW | | | | 300 mW** |
| Operating Temperature | 0 to 60 °C | -40 to 85 °C | | | -40 to 75 °C |
| Storage Temperature | -50 to 85 °C | | | | -40 to 75 °C |
| Fiber Type | SMF-28e+ | Flexcore 1060 | SMF-28e+ | | SMF-DS |
| Fiber Lead Length | | | 1 m | | |
| Jacket | Ø900 µm Loose Tubing | | | | None |

*Insertion loss will change depending on connector type (specified without connectors) **WD202D can be used with higher powers under certain operating conditions.

WDMs Without Connectors

| ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|---------|-------------|----------|----------|------------|--|
| WD202A2 | \$ 272.90 | £ 196.49 | € 237,42 | ¥ 2,175.01 | OCT-Proven 660/1310 nm Wavelength Division Multiplexer |
| WD202A | \$ 196.70 | £ 141.62 | € 171,13 | ¥ 1,567.70 | 980/1550 nm Wavelength Division Multiplexer |
| WD202B | \$ 119.70 | £ 86.18 | € 104,14 | ¥ 954.01 | 1310/1550 nm Wavelength Division Multiplexer |
| WD202C | \$ 210.20 | £ 151.34 | € 182,87 | ¥ 1,675.29 | 1480/1550 nm Wavelength Division Multiplexer |
| WD202D | \$ 1,100.00 | £ 792.00 | € 957,00 | ¥ 8,767.00 | 1600/1960 nm Wavelength Division Multiplexer |

WDMs With FC/PC Connectors

| ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|------------|-------------|----------|------------|------------|---|
| WD202A2-FC | \$ 350.90 | £ 252.65 | € 305,28 | ¥ 2,796.67 | OCT-Proven 660/1310 nm Wavelength Division Multiplexer, FC/PC |
| WD202A-FC | \$ 226.70 | £ 163.22 | € 197,23 | ¥ 1,806.80 | 980/1550 nm Wavelength Division Multiplexer, FC/PC |
| WD202B-FC | \$ 149.70 | £ 107.78 | € 130,24 | ¥ 1,193.11 | 1310/1550 nm Wavelength Division Multiplexer, FC/PC |
| WD202C-FC | \$ 240.20 | £ 172.94 | € 208,97 | ¥ 1,914.39 | 1480/1550 nm Wavelength Division Multiplexer, FC/PC |
| WD202D-FC | \$ 1,150.00 | £ 828.00 | € 1,000,50 | ¥ 9,165.50 | 1600/1960 nm Wavelength Division Multiplexer, FC/PC |

WDMs With FC/APC Connectors

| ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|------------|-----------|----------|----------|----------|--|
| WD202A-APC | \$ XXX.XX | £ XXX.XX | € XXX,XX | ¥ XXX.XX | 980/1550 nm Wavelength Division Multiplexer, FC/APC |
| WD202B-APC | \$ XXX.XX | £ XXX.XX | € XXX,XX | ¥ XXX.XX | 1310/1550 nm Wavelength Division Multiplexer, FC/APC |
| WD202C-APC | \$ XXX.XX | £ XXX.XX | € XXX,XX | ¥ XXX.XX | 1480/1550 nm Wavelength Division Multiplexer, FC/APC |
| WD202D-APC | \$ XXX.XX | £ XXX.XX | € XXX,XX | ¥ XXX.XX | 1600/1960 nm Wavelength Division Multiplexer, FC/APC |

CHAPTERS

Fiber Patch
Cables

Bare Fiber

Fiber
OptomechanicsFiber
ComponentsTest and
Measurement

SECTIONS

Collimators

Couplers

WDMs

RGB Combiner

Circulators

Fiber Isolators

Faraday Mirrors

Fiber Attenuators

Polarization
Controllers

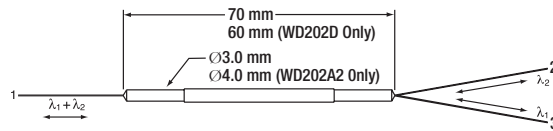
Optical Switches

Mating Sleeves

Terminating
Connectors

Termination

Wavelength Division Multiplexers (WDM)



Please refer to our website for complete models and drawings.

Features

- 300 mW Maximum Power
- Available With or Without 2.0 mm Narrow Key FC/PC, or FC/APC Connectors
- Custom Connector Options Available
- Bidirectional

Wavelength Division Multiplexers (WDMs) are used to combine or separate two different single mode signals. Available in versions capable of combining or separating five different wavelength combinations (660/1310 nm, 980/1550 nm, 1310/1550 nm, 1480/1550 nm, and 1600/1960 nm), these multiplexers are an ideal solution for combining pump and signal powers or for combining/separating telecom signals.

Based on the proven Fused Bionic Taper (FBT) technology, these multiplexers provide broad operating wavelengths and low insertion loss.

Performance Specifications

| ITEM # | WDM202A2 | WDM202A | WDM202B | WDM202C | WDM202D |
|-----------------------------|----------------------|---------------|--------------|--------------|--------------|
| Operating Wavelength | 660/1310 nm | 980/1550 nm | 1310/1550 nm | 1480/1550 nm | 1600/1960 nm |
| Insertion Loss (Max)* | 0.4 dB | 0.55 dB | 0.5 dB | 0.95 dB | 0.80 dB |
| Isolation (Min) | 19 dB | | 16 dB | 10 dB | 15 dB |
| Polarization-Dependent Loss | <0.1 dB | | | <0.3 dB | <0.2 dB |
| Wavelength Bandwidth | ±40.0 nm @ 1310 nm | ±10.0 nm | ±20.0 nm | ±5.0 nm | ±20.0 nm |
| Directivity | 36 dB | 50 dB | | | 45 dB |
| CW Power (Max) | 300 mW | | | | 300 mW** |
| Operating Temperature | 0 to 60 °C | -40 to 85 °C | | | -40 to 75 °C |
| Storage Temperature | -50 to 85 °C | | | | -40 to 75 °C |
| Fiber Type | SMF-28e+ | Flexcore 1060 | SMF-28e+ | | SMF-DS |
| Fiber Lead Length | | | 1 m | | |
| Jacket | Ø900 µm Loose Tubing | | | | None |

*Insertion loss will change depending on connector type (specified without connectors) **WDM202D can be used with higher powers under certain operating conditions.

WDMs Without Connectors

| ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|----------|-------------|----------|----------|------------|--|
| WDM202A2 | \$ 272.90 | £ 196.49 | € 237,42 | ¥ 2,175.01 | OCT-Proven 660/1310 nm Wavelength Division Multiplexer |
| WDM202A | \$ 196.70 | £ 141.62 | € 171,13 | ¥ 1,567.70 | 980/1550 nm Wavelength Division Multiplexer |
| WDM202B | \$ 119.70 | £ 86.18 | € 104,14 | ¥ 954.01 | 1310/1550 nm Wavelength Division Multiplexer |
| WDM202C | \$ 210.20 | £ 151.34 | € 182,87 | ¥ 1,675.29 | 1480/1550 nm Wavelength Division Multiplexer |
| WDM202D | \$ 1,100.00 | £ 792.00 | € 957,00 | ¥ 8,767.00 | 1600/1960 nm Wavelength Division Multiplexer |

WDMs With FC/PC Connectors

| ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|-------------|-------------|----------|------------|------------|---|
| WDM202A2-FC | \$ 350.90 | £ 252.65 | € 305,28 | ¥ 2,796.67 | OCT-Proven 660/1310 nm Wavelength Division Multiplexer, FC/PC |
| WDM202A-FC | \$ 226.70 | £ 163.22 | € 197,23 | ¥ 1,806.80 | 980/1550 nm Wavelength Division Multiplexer, FC/PC |
| WDM202B-FC | \$ 149.70 | £ 107.78 | € 130,24 | ¥ 1,193.11 | 1310/1550 nm Wavelength Division Multiplexer, FC/PC |
| WDM202C-FC | \$ 240.20 | £ 172.94 | € 208,97 | ¥ 1,914.39 | 1480/1550 nm Wavelength Division Multiplexer, FC/PC |
| WDM202D-FC | \$ 1,150.00 | £ 828.00 | € 1,000,50 | ¥ 9,165.50 | 1600/1960 nm Wavelength Division Multiplexer, FC/PC |

WDMs With FC/APC Connectors

| ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|-------------|-----------|----------|----------|----------|--|
| WDM202A-APC | \$ XXX.XX | £ XXX.XX | € XXX,XX | ¥ XXX.XX | 980/1550 nm Wavelength Division Multiplexer, FC/APC |
| WDM202B-APC | \$ XXX.XX | £ XXX.XX | € XXX,XX | ¥ XXX.XX | 1310/1550 nm Wavelength Division Multiplexer, FC/APC |
| WDM202C-APC | \$ XXX.XX | £ XXX.XX | € XXX,XX | ¥ XXX.XX | 1480/1550 nm Wavelength Division Multiplexer, FC/APC |
| WDM202D-APC | \$ XXX.XX | £ XXX.XX | € XXX,XX | ¥ XXX.XX | 1600/1960 nm Wavelength Division Multiplexer, FC/APC |