

WD1515/R, WD1515/B

C-Band Red/Blue-Band Pass MWDM

PRODUCT DESCRIPTION

WD1515/R, WD1515/B is based on mature thin film filtering tech, with wide bandwidth, flatness, low insertion loss and high isolation. It is mainly applied to the combination and separation of C-Band, Red-Band (1547~1563nm) and Blue-Band (1528~1543nm).

WD1515/R:Red-Band Pass.

WD1515/B:Blue-Band Pass.

PRODUCT FEATURE

- ▶ Low insertion loss
- ▶ High channel isolation
- ▶ High pass band flatness
- ▶ High stability and reliability
- ▶ Optical link without epoxy glue

MAIN APPLICATION

- ▶ Optical fiber amplifier
- ▶ System monitor
- ▶ Optical fiber instrument
- ▶ Laboratory R&D

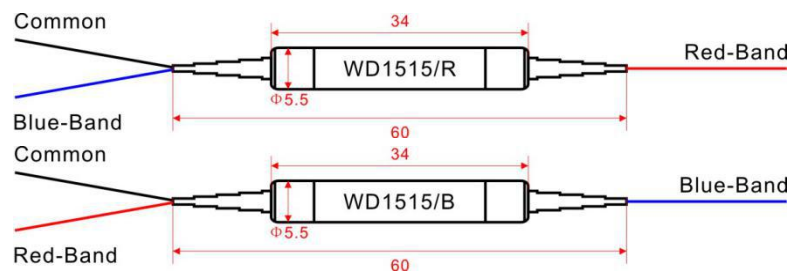


TECHNIQUE INDEX

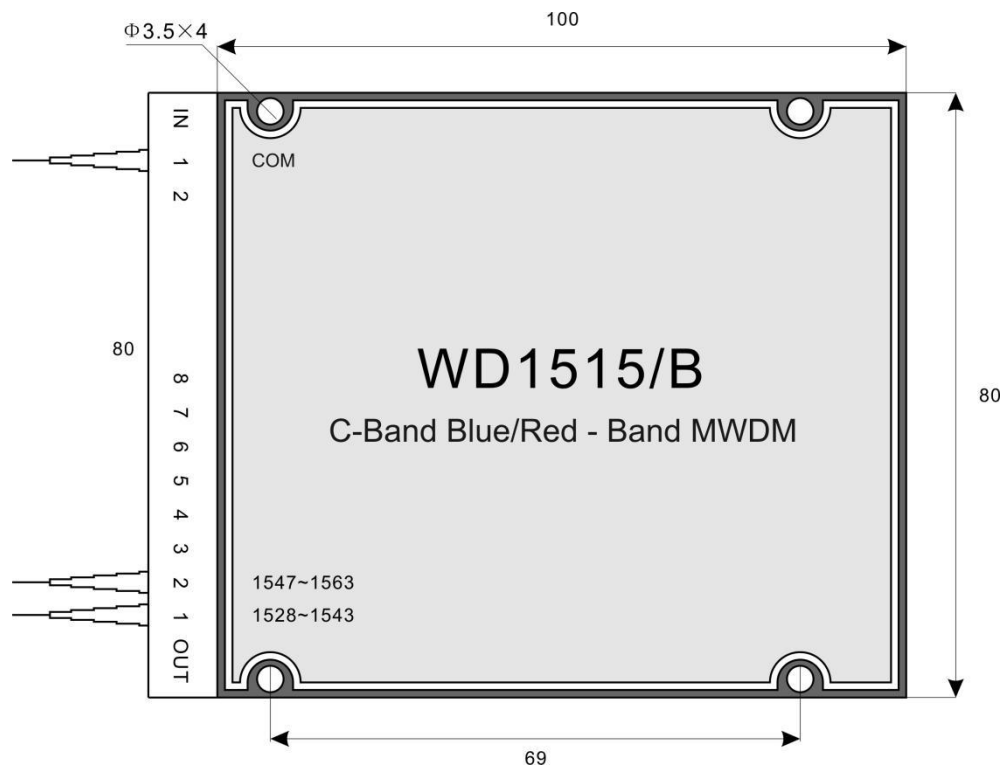
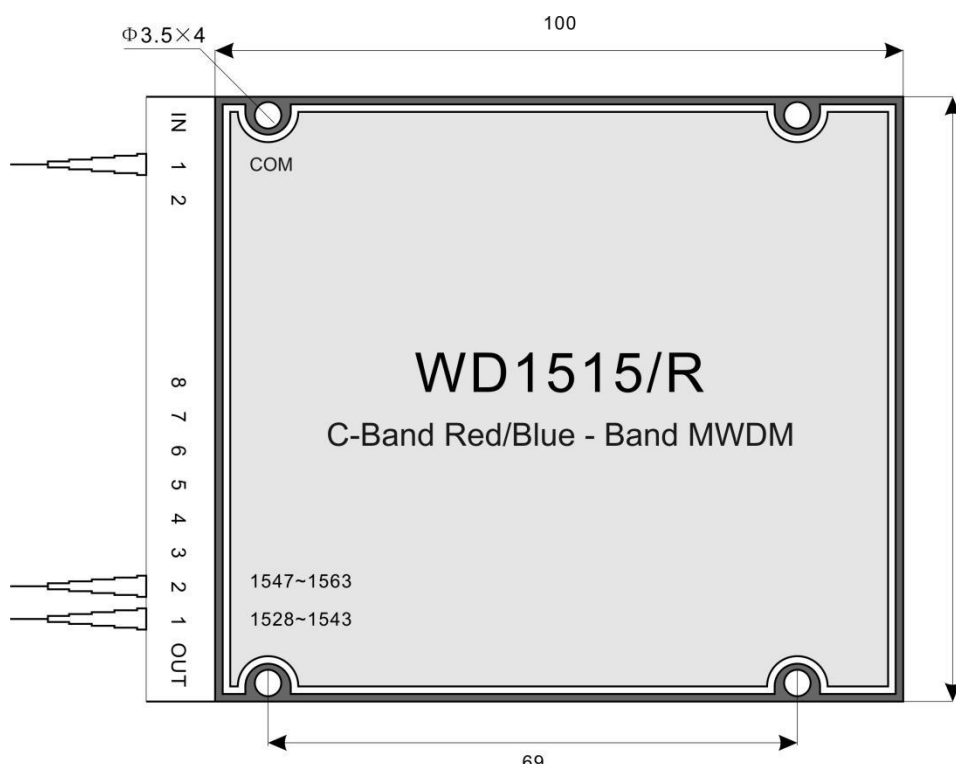
| Performance | | Index | | | Supplement |
|---------------------------------------|----------------------|-------------------------------|------|--------|------------|
| | | Min. | Typ. | Max. | |
| Transmission channel wavelength range | (nm) | 1528.0 | | 1543.2 | WD1515/B |
| | | 1547.4 | | 1563.3 | WD1515/R |
| Reflection channel wavelength range | (nm) | 1528.0 | | 1543.2 | WD1515/R |
| | | 1547.4 | | 1563.3 | WD1515/B |
| Insertion loss | Transmission channel | | | 0.6 | |
| | Reflection channel | | | 0.4 | |
| Isolation | Transmission channel | 30 | | | |
| | Reflection channel | 13 | | | |
| Pass band ripple | (dB) | | | 0.3 | |
| Directivity | (dB) | 50 | | | |
| Return loss | (dB) | 50 | | | |
| Polarization mode dispersion | (ps) | | | 0.05 | |
| Polarization dependence loss | (dB) | | | 0.1 | |
| Power handling | (mW) | | | 500 | |
| Operating temp. | (°C) | -10 | | +70 | |
| Storage temp. | (°C) | -40 | | +85 | |
| Fiber type | | SMF-28e with 900μm loose tube | | | |
| Optical connector | | SC/APC | | | |
| External dimension | (mm) | Φ5.5×34 | | | S |
| | | 100×80×10 | | | M |

EXTERIOR DIMENSION

S exterior



M exterior



| Model number | Transmission band | Reflection band | Exterior (mm) | Connector | Supplement |
|---------------|-------------------|-----------------|---------------|-----------|-----------------|
| WD1515/R-S-00 | C/Red-Band | C/Blue-Band | Φ5.5×34 | None | |
| WD1515/R-M-SA | | | 100×80×10 | SC/APC | FC/APC optional |
| WD1515/B-S-00 | C/Blue-Band | C/Red-Band | Φ5.5×34 | None | |
| WD1515/B-M-SA | | | 100×80×10 | SC/APC | FC/APC optional |

| Product series | | Transmission wavelength | | Reflection wavelength | | Transmission wavelength code | | Exterior | | Connector | |
|----------------|------------------|-------------------------|--------|-----------------------|--------|------------------------------|-----------|----------|--|-----------|--------|
| WD | Band multiplexer | 15 | C-Band | 15 | C-Band | R | Red-Band | S | Single component $\Phi 5.5 \times 34 \text{ mm}$ | 00 | None |
| | | | | | | B | Blue-Band | M | Module $100 \times 80 \times 10 \text{ mm}$ | SA | SC/APC |
| | | | | | | | | | | SP | SC/UPC |
| | | | | | | | | | | FA | FC/APC |
| | | | | | | | | | | FP | FC/UPC |
| | | | | | | | | | | LA | LC/APC |
| | | | | | | | | | | LP | LC/UPC |