

Coarse Wavelength Division Multiplexer – CWDM CWDM bandsplitter 9+8 skip 1

Features

- Devices may be used as multiplexer or demultiplexer
- High isolation
- Epoxy-free optical path, ITU G.694.2 and Telecording GR1221 compliant
- Low insertion losses
- Packaging on line card or in CWDM sub-system for rack mounting on request

Applications

- Combines / separates CWDM channels 1271 - 1431 and 1471 - 1611
- No operation for channel 1451 (skip1)
- Metro Core, Metro Access, Metro Enterprise, Cable TV, 3G Telephony (UMTS), Datacomm, WAN, RFTS, Sensor Applications
- For analog and digital transmission systems

Specifications

| Parameters | Coarse Wavelength Division Multiplexer – CWDM (all values refer to single mode) | | |
|------------------------------------|---|---------------------|-----------------|
| Channels | 2 bands | | |
| Center wavelengths [nm] | 1310 / 1550 | | |
| Wavelength range | Pass Band | 1464 nm - 1640 nm | |
| | Reflect Band | 1260 nm - 1438 nm | |
| Insertion Loss * | < 1.0 dB | | |
| Isolation ** | | standard iso | high iso |
| | Pass Band at Reflect Port | > 15 dB | > 30 dB |
| | Reflect Band at Pass Port | > 30 dB | > 30 dB |
| Return Loss * | > 45 dB (50 dB typ.) | | |
| Directivity | > 50 dB | | |
| Polarization Dependent Loss | < 0.1 dB | | |
| Max. optical power | 250 mW | | |
| Operating Temperature | -5°C to 70°C | | |
| Storage Temperature | -40°C to 85°C (when removed from plastic package) | | |
| Package Dimensions | 1x4 device, cylindric 4.2mm diameter and 51mm length | | |

* With passband, valid over full temperature range and at all states of polarization but without connector losses.

** Valid over full temperature range and at all wavelengths across the channel.

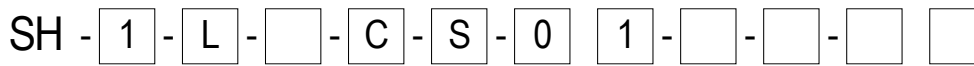
Additional components according to your specifications on request! Please contact Cube Optics for further details.

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Ordering Information

Indicate your requirements by selecting one option from each configuration table. Please write the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact HUBER+SUHNER Cube Optics AG at +49-6131-69851-0 or via email at sales.cubo@hubersuhner.com,

Ordering example: SH-1-L-2-C-S-01-1-1-1-1



| optional features | code |
|-------------------|------|
| Standard iso | 1 |
| High iso | 2 |

| Fiber length | code | Connector in/out | code |
|--------------|------|------------------|------|
| 0.5 m | A | none | 0 |
| 1 m | B | SC/PC | 1 |
| | | FC/PC | 2 |
| | | SC/APC** | 3 |
| | | FC/APC** | 4 |
| | | LC/PC | 5 |
| | | MU/PC | 6 |
| | | E2000 | 7 |
| | | E2000/HRL** | 8 |
| | | ST/PC | 9 |

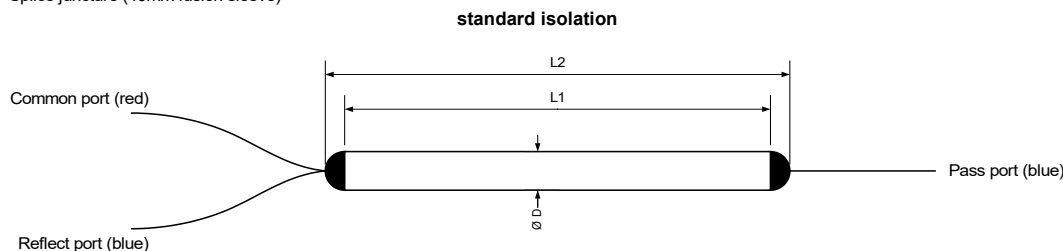
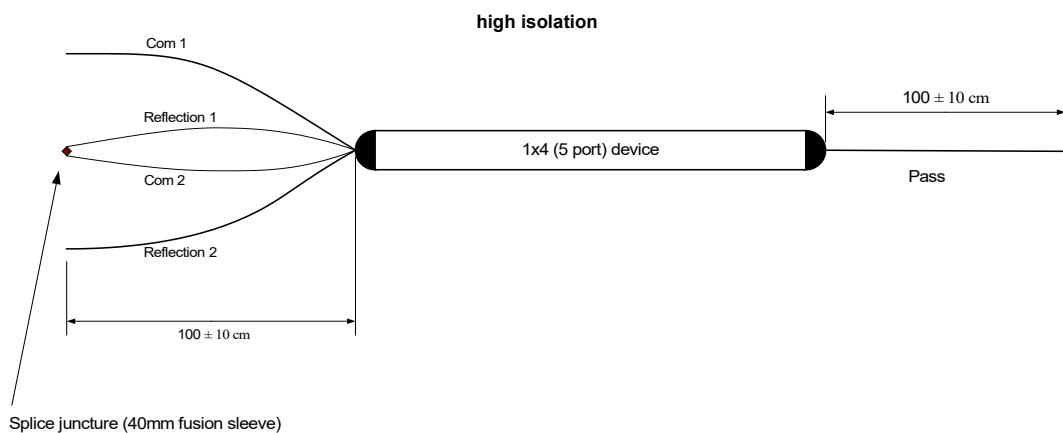
| fiber type an packaging | code |
|--|------|
| Corning SMF-28™ (9,125,250 μm) 900 μm loose tube | 1 |
| Corning SMF-28™ (9,125,250 μm) 250 μm coating | 2 |
| Multi mode fiber GI (50,125,250 μm) 900 μm loose tube | 3* |
| Multi mode fiber GI (50,125,250 μm) 250 μm coating | 4* |

* Configuration is not reflected by this datasheet.

in/out put if the device is regarded as demultiplexer connectors only available in combination with loose tube fiber protection
** 8° angular polishing

Further configuration on request!

Housing



| Parameters | |
|------------|---------------|
| Ø D | 4.2 +0/-0.1mm |
| L 1 | 48 +/-0.1mm |
| L 2 | 51 +/-1mm |

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