

Coarse Wavelength Division Multiplexer – CWDM

> add & drop, 1 channel

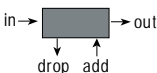
Features

- Device functions as add and drop unit for one CWDM channel
- Micro-hybrid design in a sealed metal housing
- Epoxy-free optical path
- RoHS compliant per EU Directive 2002/95/EC
- Tested in accordance with Telcordia GR-1209/1221, central office

Applications

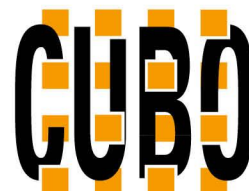
- Metro Core, Metro Access, Metro Enterprise, Cable TV, 3G Telephony (UMTS), Datacomm, WAN, RFTS
- Analog and digital transmission systems

Specifications

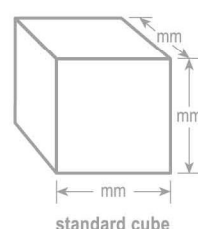
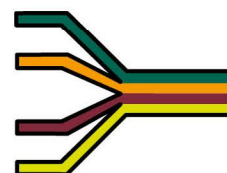
| | | | | | | |
|-----------------------------|---|--|--------------|---------------------|---------|------------------------------|
| Parameters | Coarse Wavelength Division Multiplexer – add & drop (all values refer to single mode) | | | | | |
| Channels | 1 add & 1 drop channel | | | | | |
| Center Wavelength [nm] | choice of 1 wavelength within <u>one</u> band | | | | | |
| Band 1 (red band) | 1471 / 1491 / 1511 / 1531 / 1551 / 1571 / 1591 / 1611 | | | | | |
| Band 2 (blue band) | 1271 / 1291 / 1311 / 1331 / 1351 / 1371 / 1391 / 1411 / 1431 / 1451 | | | | | |
| | other wavelength upon request; please contact CUBO | | | | | |
| Optical Bandwidth | > 13 nm | | | | | |
| Insertion Loss * | in -> out | < 1.5 dB | | | | |
| | in -> drop, add -> out | < 1.7 dB | | | | |
| Isolation |  | adjacent channel at drop port | > 30 dB | standard version | > 60 dB | high isolation version |
| | | non-adj. channel at drop port | > 40 dB | | > 60 dB | |
| | | add channel at drop port | > 50 dB | | > 60 dB | |
| | | drop channel at out port | > 40 dB | | > 50 dB | |
| | | Isolation Spectral Range Band 1 (red) | 1460-1620 nm | | | |
| | | Isolation Spectral Range Band 2 (blue) | 1260-1460 nm | | | |
| Return Loss * | > 45 dB (50 dB typ.) | | | | | |
| Directivity | > 50 dB | | | | | |
| Polarization Dependent Loss | < 0.2 dB | | | | | |
| Max. optical power | 250 mW | | | | | |
| Operating Temperature | 0°C to 70°C (-40°C to 85°C on request) | | | | | |
| Storage Temperature | -40°C to 85°C (when removed from plastic package) | | | | | |
| Package Dimensions | 19 x 15.5 x 9 mm ³ | | | | | |

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

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



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standard cube

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Cube Optics AG



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 Cube Optics AG at +49-6131-69851-0 or via e.mail at sales@cubeoptics.com, or visit our website at www.cubeoptics.com.

Ordering example: CA-1-C-0-S-13-2-B-15

CA - - - - - 1 3 - - -

| no. of channels | code | optional features | code | Fiber length | code | Connector in/out | code |
|-----------------|------|-------------------|------|--------------|------|------------------|------|
| 1 add & drop | 1 | None | 0 | 0.5 m | A | none | 0 |
| | | High isolation | H | 1 m | B | SC/PC | 1 |
| | | | | 0.3 m | T | FC/PC | 2 |
| | | | | 0.35 m | U | SC/APC** | 3 |
| | | | | 0.4 m | V | FC/APC** | 4 |
| | | | | | | LC/PC | 5 |
| | | | | | | MU/PC | 6 |
| | | | | | | E2000 | 7 |
| | | | | | | E2000/HRL** | 8 |
| | | | | | | ST/PC | 9 |

| Center wavelength of add & drop channel | code | housing | code | fiber type an packaging | code |
|---|------|---------------------|------|---|------|
| 1611 nm | A | Standard add & drop | S | Corning SMF-28™ (9,125,250 μm) 900 μm loose tube | 1 |
| 1591 nm | B | | | Corning SMF-28™ (9,125,250 μm) 250 μm coating | 2 |
| 1571 nm | C | | | Multi mode fiber GI (50,125,250 μm) 900 μm loose tube | 3* |
| 1551 nm | D | | | Multi mode fiber GI (50,125,250 μm) 250μm coating | 4* |
| 1531 nm | E | | | | |
| 1511 nm | F | | | | |
| 1491 nm | G | | | | |
| 1471 nm | H | | | | |
| 1451 nm | I | | | | |
| 1431 nm | J | | | | |
| 1411 nm | K | | | | |
| 1391 nm | L | | | | |
| 1371 nm | M | | | | |
| 1351 nm | N | | | | |
| 1331 nm | O | | | | |
| 1311 nm | P | | | | |
| 1291 nm | Q | | | | |
| 1271 nm | R | | | | |

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

* Configuration is not reflected by this datasheet.

Further configuration on request!

Standard Add & Drop housing

