# Coarse Wavelength Division Multiplexer – CWDM > mux or demux, 8 channels, single mode

# CUBD

# Features

- Device works as a multiplexer, demultiplexer or in a bidirectional single fiber link
- Multiplexer and Demultiplexer paired for lowest link loss
- Micro-hybrid design in a sealed metal housing
- Epoxy free optical path
- RoHS compliant per EU Directive 2002/95EC
- UL 94 V0 flammability rating
- Tested in accordance with Telcordia GR-1209/1221, uncontrolled environment
- Fit for outside plant deployment

#### **Applications**

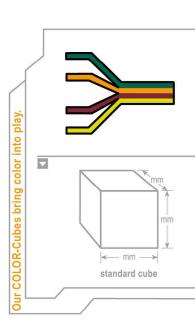
- Combines / separates 8 channels with a 20 nm spacing
- Metro Core, Metro Access, Metro Enterprise, Cable TV, 3G Telephony (UMTS), Datacomm, WAN, RFTS, Sensor Applications
- Analog and digital transmission systems

# Specifications

Parameters	Coarse Wavelength Division Multiplexer – mux/demux (all values refer to single mode / multi mode: see separate datasheet)		
	(all values refer to single mode /	multi mode: see separate datasi	neet)
Channels	8		
Center Wavelength [nm]	8 out of 10 adjacent channels		
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 (higher bandwidth on re	quest)	
Insertion Loss *	Standard < 2.4 dB	Premium < 2.0 dB	
Link Loss * for mux – demux pa	ir Standard < 4.3 dB	Premium < 3.5 dB	
Isolation **	adjacent channel		> 30 dB
	non-adjacent channel		> 40 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 (for mux)	> 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 fr	om plastic package)	
Package Dimensions	19 x 15.5 x 9 mm <sup>3</sup>		

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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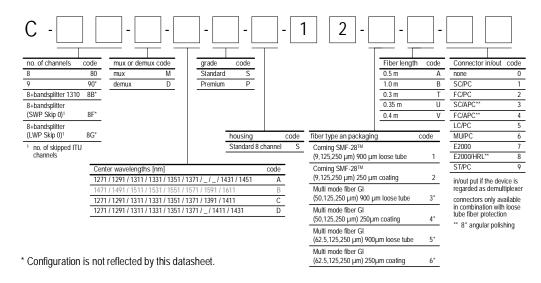
<sup>\*\*</sup> Valid over full temperature range and at all wavelengths across the channel.

#### **Ordering Information**



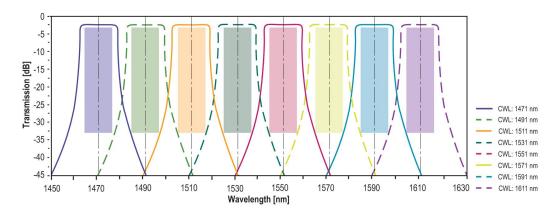
Indicate your requirements by selecting one option from each configuration table. Please write the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact Cube Optics AG at +49-6131-69851-0 or via e.mail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

Ordering example: C-80-M-B-S-S-12-1-B-15

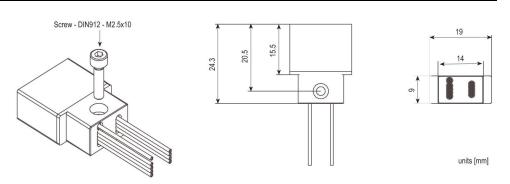


Further configuration on request!

### Typical Spectral Performance for 8 Channel Mux



#### Standard 8 channel housing



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