

# Features

- Devices may be used as multiplexer or demultiplexer
- Upgrade channel, integrated bandsplitters and tap ports available
- Multi mode fiber GI 62.5 or GI 50
- Micro-hybrid construction in a sealed metal housing
- Epoxy-free optical path
- Extremely small component dimensions: 19 x 15.5 x 9 mm<sup>3</sup>, other dimensions on request
- 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 up to 4 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

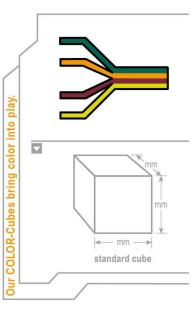
#### Specifications

Parameters	Coarse Wavelength Division Multiplexer – mux/demux (all values refer to multimode)		
Channels	4, 4+ upgrade		
Center Wavelength [nm]	choice of 4 wavelengths within one 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		
	Upgrade: remaining wavelengths of band		
	other wavelength upon request; please contact CUBO		
Optical Bandwidth	> 13 nm (higher bandwidth on request)		
Insertion Loss *	4 channel CWDM	Standard < 1.9 dB	Premium < 1.7 dB
	4+ upgrade channel CWDM	Standard < 2.0 dB	Premium < 1.8 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 *	> 10 dB		
Directivity (for mux)	> 40 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 <sup>3</sup>		

\* 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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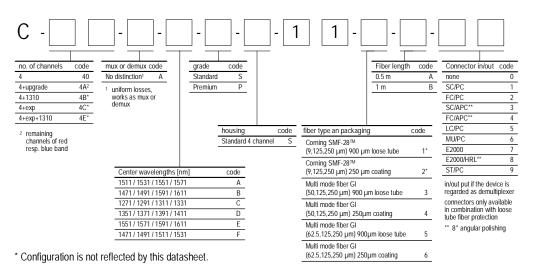


## Ordering Information

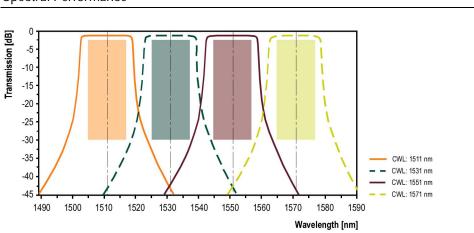
CUBD

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.

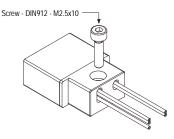
Ordering example: C-40-A-A-S-S-11-3-B-15

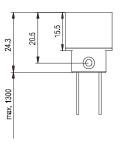


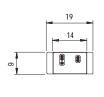
Further configuration on request!



# Standard 4 channel housing







units [mm]

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Cube Optics AG

# Spectral Performance