# **COLOR Cubes**

**HUBER+SUHNER** 

# **Coarse Wavelength Division Multiplexer – CWDM** mux or demux, 4 channels (reduced size)

#### **Features**

- · Devices may be used as multiplexer or demultiplexer
- · Micro-hybrid construction in a sealed metal housing
- · Epoxy-free optical path
- Extremely small component dimensions: 17.1 x 12.5 x 6.5 mm<sup>3</sup>, other dimensions on request
- Fiber packaging: loose tube or 250 µm coating

## **Applications**

- · Combines / separates 4 channels with a 20 nm spacing
- Optimized package for CFP transceiver modules
- · According to 40 Gbps IEEE 802.3ba standard

### **Specifications**

Parameters	Coarse Wavelength Division Multiplexer – mux/demux (all values refer to single mode)		
Channels	4		
Center Wavelength [nm]	1271 / 1291 / 1311 / 1331		
	other wavelength upon requ	uest; please contact CUBO	
Optical Bandwidth	> 13 nm (higher bandwidth on request)		
Insertion Loss *	4 channel CWDM	Standard < 2.0 dB	Premium < 1.5 dB
Isolation **	adjacent channel	> 30 dB	
	non-adjacent channel	> 40 dB	
	Isolation Spectral Range	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	-5°C to 75°C		
Storage Temperature	-40°C to 85°C (when removed from plastic package)		
Package Dimensions	17.1 x 12.5 x 6.5 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.

# **COLOR** Cubes

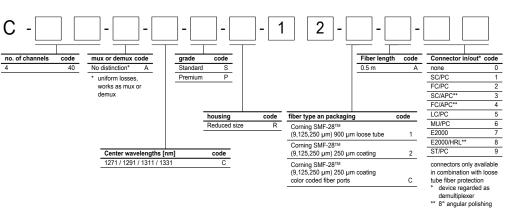
**HUBER+SUHNER** 

# Coarse Wavelength Division Multiplexer – CWDM mux or demux, 4 channels (reduced size)

# **Ordering Information**

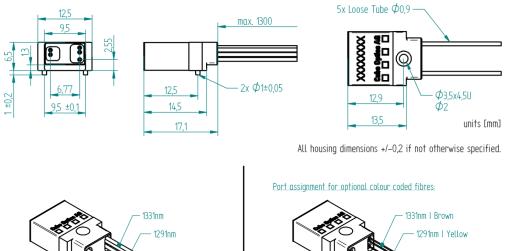
Please select an option from each configuration table and write the corresponding codes in the applicable boxes to create the part number.

#### Ordering example: C-40-A-C-S-R-12-1-A-15



Further configuration on request!

### Reduced size 4 channel housing



1311nm I Red 1271nm I Blue

> HUBER+SUHNER Cube Optics AG Eindhoven-Allee 3 55129 Mainz Germany

phone: +49-6131-4995-100 sales.cubo@hubersuhner.com

www.hubersuhner.com www.cubeoptics.com

1311n

1271nm

3

Готтор