

## 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 request; 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.



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### 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**

C		-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	1	2	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	<input type="text"/>
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no. of channels	code
4	40

mux or demux code
No distinction* A
* uniform losses, works as mux or demux

grade	code
Standard	S
Premium	P

housing	code
Reduced size	R

Center wavelengths (nm)	code
1271 / 1291 / 1311 / 1331	C

Fiber length	code
0.5 m	A

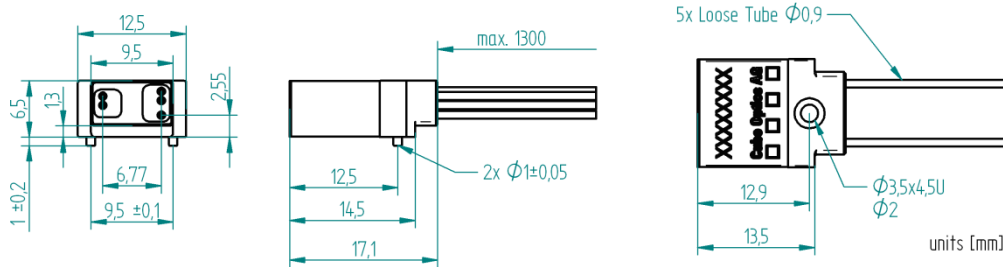
Connector in/out*	code
none	0
SC/PC	1
FC/PC	2
SC/APC**	3
FC/APC**	4
LC/PC	5
MU/PC	6
E2000	7
E2000/HRL**	8
ST/PC	9

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
Corning SMF-28™ (9,125,250 μm) 250 μm coating color coded fiber ports	C

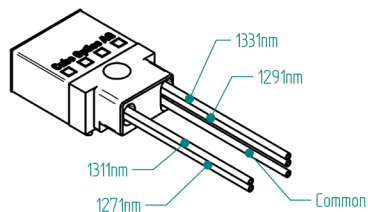
connectors only available in combination with loose tube fiber protection  
 \* device regarded as demultiplexer  
 \*\* 8° angular polishing

Further configuration on request!

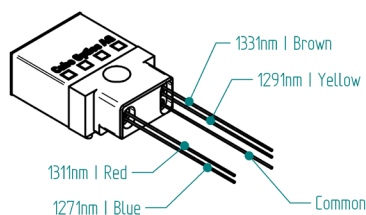
### Reduced size 4 channel housing



All housing dimensions +/-0,2 if not otherwise specified.



Port assignment for optional colour coded fibres:



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 Germany

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