

## Coarse Wavelength Division Multiplexer – CWDM mux or demux, 4 channels

### Features

- Devices may be used as multiplexer or demultiplexer
- Upgrade channel, integrated bandsplitters and tap ports available
- 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
- Flexible Location of Fiber Ports, for details see Products page
- Also available as integrated Patch Cord CWDM for flexible system configurations to enable multiplexing without using any board space
- Single mode and multi mode fibers possible, fiber packaging: loose tube or 250 µm coating

### Applications

- Combines / separates up to 4 channels with a 20 nm spacing
- Metro Core, Metro Access, Metro Enterprise, Cable TV, 3G Telephony (UMTS), Datacom, WAN, RFTS, Sensor Applications
- Analog and digital transmission systems

### Specifications

Parameters	Coarse Wavelength Division Multiplexer – mux/demux (all values refer to single mode)		
<b>Channels</b>	4, 4+ upgrade		
<b>Center Wavelength [nm]</b>	choice of 4 wavelengths 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		
	Upgrade: remaining wavelengths of band other wavelength upon request; please contact CUBO		
<b>Optical Bandwidth</b>	> 13 nm (higher bandwidth on request)		
<b>Insertion Loss *</b>	4 channel CWDM	Standard < 1.9 dB	Premium < 1.7 dB
	4+ upgrade channel CWDM	Standard < 2.0 dB	Premium < 1.8 dB
<b>Isolation **</b>	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	
<b>Return Loss *</b>	> 45 dB (50 dB typ.)		
<b>Directivity</b>	> 50 dB		
<b>Polarization Dependent Loss</b>	< 0.2 dB		
<b>Max. optical power</b>	250 mW		
<b>Operating Temperature</b>	0°C to 70°C (-40°C to 85°C on request)		
<b>Storage Temperature</b>	-40°C to 85°C (when removed from plastic package)		
<b>Package Dimensions</b>	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.

