COLOR Cubes



Coarse Wavelength Division Multiplexer – CWDM mux & demux, 4 channels, mux & demux in one single housing

Features

- · 4 channel mux and 4 channel demux integrated in a single housing (separated mux or demux on request)
- Upgrade channel, integrated bandsplitters and tap ports on request
- · Micro-hybrid construction in a sealed metal housing
- Epoxy-free optical path, ITU G.694.2 and Telecording GR1221 compliant
- Extremely small component dimensions: 19 x 15.5 x 9 mm3, 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
- · Packaging on line card or in CWDM sub-system for rack mounting on request

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 single mode)	
Channels	4 channel mux & 4 channel demux	
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	< 1.9 dB (premium versions available)
Link Loss* for mux – demux pair	< 3.8 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 *	> 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 from plastic package)	
Package Dimensions	19 x 15.5 x 9 mm ³	

^{*} 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 us for further details.

^{**} Valid over full temperature range and at all wavelengths across the channel.

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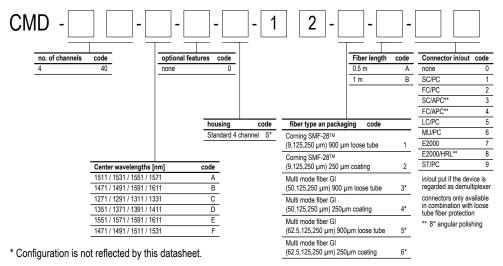


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Ordering Information

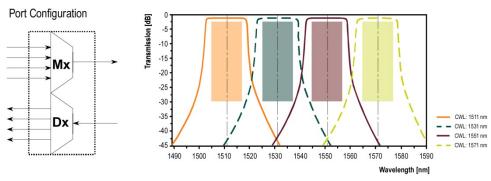
Please select an option from each configuration table and write the corresponding codes in the applicable boxes to create the part number.

Ordering example: CMD-40-A-0-S-12-1-B-15

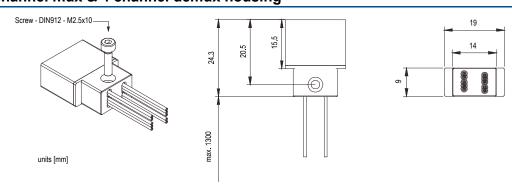


Further configuration on request!

Port Configuration and Spectral Performance



Standard 4 channel mux & 4 channel demux housing



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