

Coarse Wavelength Division Multiplexer – CWDM mux or demux, 8 channels, single mode

Features

- Device works as a multiplexer, demultiplexer or in a bidirectional single fiber link
- Multiplexer and Demultiplexer paired for lowest link loss
- Micro-hybrid design in a sealed metal housing
- Epoxy free optical path
- 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 8 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 / multi mode: see separate datasheet)	
Channels	8	
Center Wavelength [nm]	8 out of 10 adjacent channels	
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	
	other wavelength upon request; please contact CUBO	
Optical Bandwidth	> 13 nm (higher bandwidth on request)	
Insertion Loss *	Standard < 2.4 dB	Premium < 2.0 dB
Link Loss * for mux – demux pair	Standard < 4.3 dB	Premium < 3.5 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	16 x 15.6 x 9 mm ³	

* 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-80-M-B-S-S-13-1-B-15**

C - - - - - - - 1 3 - - - -

no. of channels	code	mux or demux code	grade	code	Fiber length	code	Connector in/out	code
8	80	mux	Standard	S	0.5 m	A	none	0
9	90*	demux	Premium	P	1.0 m	B	SC/PC	1
					0.3 m	T	FC/PC	2
					0.35 m	U	SC/APC**	3
					0.4 m	V	FC/APC**	4
							LC/PC	5
							MU/PC	6
							E2000	7
							E2000/HRL**	8
							ST/PC	9

housing	code	fiber type an packaging	code
Standard 8 channel	S	Corning SMF-28™ (9,125,250 μm) 900 μm loose tube	1
		Corning SMF-28™ (9,125,250 μm) 250 μm coating	2
		Multi mode fiber GI (50,125,250 μm) 900 μm loose tube	3*
		Multi mode fiber GI (50,125,250 μm) 250μm coating	4*
		Multi mode fiber GI (62.5,125,250 μm) 900μm loose tube	5*
		Multi mode fiber GI (62.5,125,250 μm) 250μm coating	6*

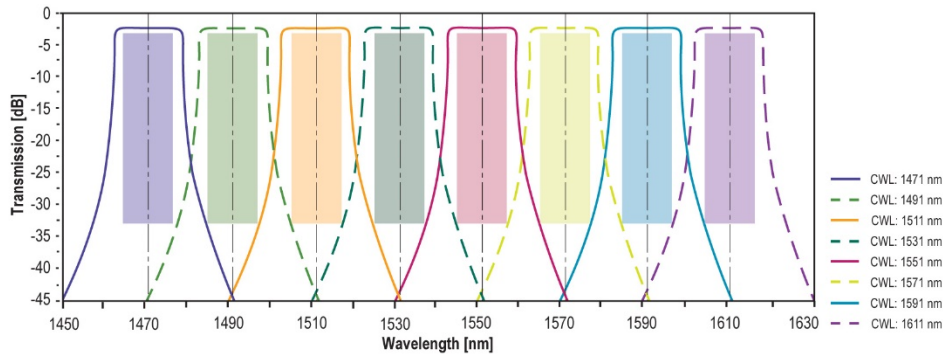
Center wavelengths [nm]	code
1271 / 1291 / 1311 / 1331 / 1351 / 1371 / / / 1431 / 1451	A
1471 / 1491 / 1511 / 1531 / 1551 / 1571 / 1591 / 1611	B
1271 / 1291 / 1311 / 1331 / 1351 / 1371 / 1391 / 1411	C
1271 / 1291 / 1311 / 1331 / 1351 / 1371 / / 1411 / 1431	D

in/out put if the device is regarded as demultiplexer
connectors only available in combination with loose tube fiber protection
** 8° angular polishing

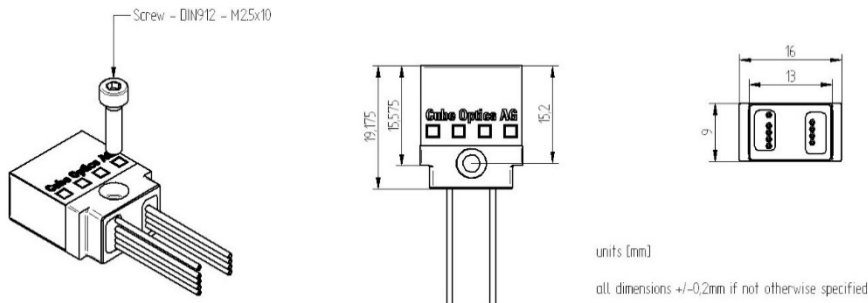
* Configuration is not reflected by this datasheet.

Further configuration on request!

Typical Spectral Performance for 8 Channel Mux



Standard 8 channel housing



HUBER+SUHNER Cube Optics AG
is certified according to ISO 9001.

WAIVER

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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