

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

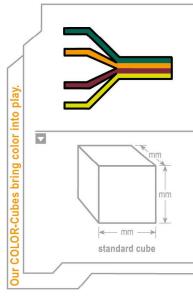
- Combines / separates 8 channels with a 20 nm spacing
- Includes upgrade port, un-muxed signals passed through
- Metro Core, Metro Access, Metro Enterprise, Cable TV, 3G Telephony (UMTS), Datacomm, WAN, RFTS, Sensor Applications
- Analog and digital transmission systems

Specifications

Parameters	Coarse Wavelength Division Multiplexer – mux/demux (all values refer to single mode) (all values refer to single mode/multi mode: see separate datasheet)		
Channels	8+1		
Center Wavelength [nm] Band 1 (red band) Band 2 (blue band)	8 channels with in one band 1471 / 1491 / 1511 / 1531 / 1551 / 1571 / 1591 / 1611 1271 / 1291 / 1311 / 1331 / 1351 / 1371 / 1391 / 1411 / 1431 / 1451		
Optical Bandwidth	> 13 nm (higher bandwidth on request)		
Upgrade Port	1310+/-50nm 1260nm1458.5nm 1464.5nm1617.5nm	C-8B C-8F C-8G	
Insertion Loss *	Mux Demux	Standard < 2.5 dB < 2.7 dB	Premium < 2.2 dB < 2.4 dB
Isolation **	CWDM ports UG port	Mux > 13 dB > 15 dB	Demux > 30 dB (adj.) / > 40 dE > 40 db
Return Loss *	> 45 dB (50 dB typ.)		
Directivity (for mux)	> 50 dB		
Polarization Dependent Loss	< 0.25 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	Mux: 19 x 15.5 x 9 mm ³ / De	emux: 22 x 15.5 x 10.5 mm	3

* With passband, valid over full temperature range and at all states of polarization but without connector losses.

 $^{\ast\ast}\,$ Valid over full temperature range and at all wavelengths across the channel.



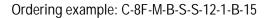
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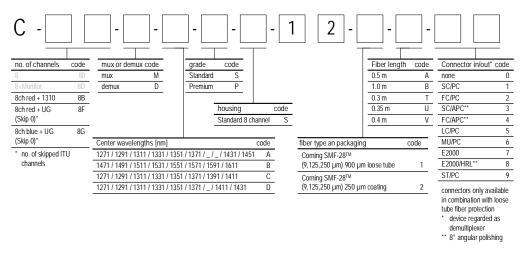


Ordering Information

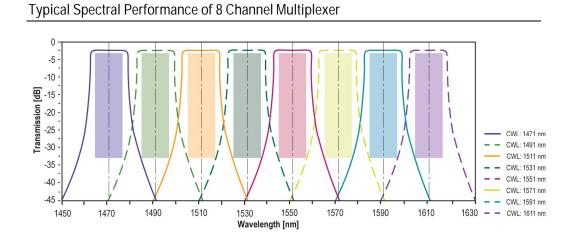
CUBD

Indicate your requirements by selecting one option from each configuration table. Please write the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact Cube Optics AG at +49-6131-69851-0 or via e.mail at sales@cubeoptics.com, or visit our website at www.cubeoptics.com.

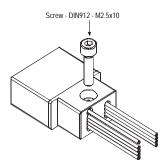


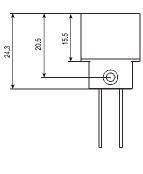


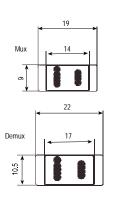
Further configuration on request! Please ask for separate datasheets with grey code.



Standard 8 channel housing







units [mm]

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