

# Wavelength Division Multiplexer – LAN WDM

## > 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 LAN WDM spacing
- Optimized package for CFP transceiver modules
- According to 100 Gbps IEEE 802.3ba standard

### Specifications

Parameters	Wavelength Division Multiplexer – mux/demux (all values refer to single mode)		
Channels	4		
Operating Channels L0 - L3	(According to cole_01_0708 IEEE 802.3ba) 1295.56 / 1300.05 / 1304.58 / 1309.14		
Optical Bandwidth	(According to cole_01_0708 IEEE 802.3ba)		
L0	1294.53 - 1296.59 nm		
L1	1299.02 - 1301.09 nm		
L2	1303.54 - 1305.63 nm		
L3	1308.09 - 1310.19 nm		
Insertion Loss *	4 channel LAN WDM	Standard < 2.0 dB	Premium < 1.5 dB
Isolation **	adjacent channel	> 25 dB for demux	> 15 dB for mux
	non-adjacent channel	> 35 dB for demux	> 15 dB for mux
Return Loss *	> 45 dB (50 dB typ.)		
Directivity	> 50 dB		
Polarization Dependent Loss	< 0.5 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>		

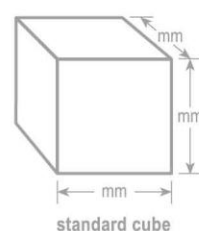
\* With passband, valid over full temperature range and at all states of polarization but without connector losses.

\*\* Valid over full temperature range and at all wavelengths across the channel.

**Additional components according to your specifications on request! Please contact Cube Optics for further details.**



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**Cube Optics AG**



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](mailto:sales@cubeoptics.com), or visit our website at [www.cubeoptics.com](http://www.cubeoptics.com).

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**Further configuration on request!**

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All housing dimensions  $\pm 0,2$  if not otherwise specified.

Port assignment for optional colour coded fibres:

