

LX4 Wavelength Division Multiplexer – LX4 WDM

> mux or demux, 4 channels



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: 19 x 15.5 x 9 mm³, other dimensions on request
- Single mode and multi mode fibers possible, fiber packaging: loose tube or 250 µm coating

Applications

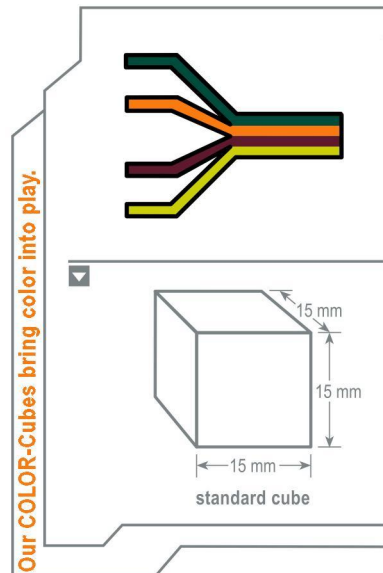
- Combines / separates 4 channels in accordance to the LX4 standard grid
- Metro Core, Metro Access, Metro Enterprise, Cable TV, 3G Telephony (UMTS), Datacomm, WAN, RFTS, Sensor Applications
- Digital transmission systems

Specifications

Parameters	LX4 Wavelength Division Multiplexer – mux/demux (all values refer to single mode)		
Channels	4		
Center Wavelength [nm]	1275.7 / 1300.2 / 1324.7 / 1349.2		
Optical Bandwidth	> 13.4 nm		
Insertion Loss *	4 channel CWDM	Standard < 1.9 dB	Premium < 1.7 dB
Isolation **	adjacent channel	> 30 dB	
	non-adjacent channel	> 40 dB	
	Isolation Spectral Range	1260-1460 nm	
Return Loss *	> 45 dB (50 dB typ.)		
Directivity	> 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.
 ** 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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