



Wide Band Wavelength Division Multiplexer – WWDM

Features

- Equal losses for de- or multiplexing applications, devices may be used as multiplexer or de-multiplexer
- Micro-hybrid construction in a sealed metal housing
- Epoxy-free optical path
- Extremely small component dimensions: 15 x 15 x 15 mm³, other dimensions on demand
- Flexible Fiber Connection Technology (FFCT), for details see Products page
- All types of single mode as well as multi mode fibers possible
- Fiber packaging: loose tube or 250 µm coating

Applications

- Bi-directional or unidirectional systems
- Combines / separates 1310 and 1550nm channels
- Cable TV, Metro Core, Metro Access, Metro Enterprise, WAN, RFTS
- For analog and digital transmission systems

Specifications

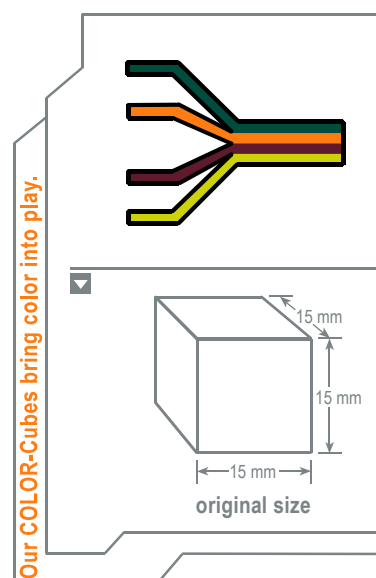
Parameters			Wide Band Wavelength Division Multiplexer – WWDM
Channels			2
Center wavelengths			1310 nm / 1550 nm
Wavelength range	Pass Band		1500 nm – 1600 nm
	Reflect Band		1270 nm – 1350 nm
Port A (1500-1600 nm)	Insertion Loss*		max: <1 dB, typical: 0.6 dB
	Isolation**		> 40 dB
Port B (1270-1350 nm)	Insertion Loss*		max: <1 dB, typical: 0.6 dB
	Isolation**		> 20 dB***
Return loss *			> 50 dB
Directivity			> 50 dB
Polarization dependent loss			< 0.1 dB
Operating temperature			0°C – 70°C
Storage temperature			-45°C – 85°C
Package dimensions			15 x 15 x 15 mm ³

* It is the max. loss at entire wavelength range, 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.

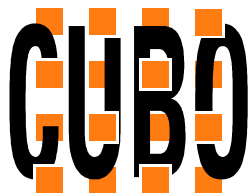
*** Higher isolation on request.

Additional components according to your specifications on demand!



V 4.0

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Ordering Information

Indicate your requirements by selecting one option from each configuration table. Please print 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 - 6131-698510 or via e.mail at sales@cubeoptics.com, or visit our website at www.cubeoptics.com.

Ordering example: W-02-A-X-0-S-3-B-15

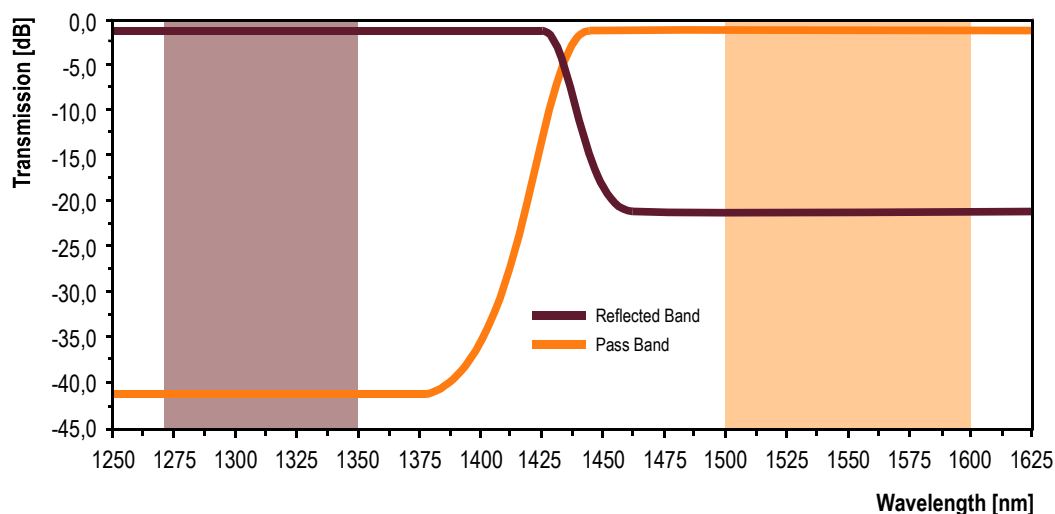
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no. of channels	code	center wavelength	code	optional features	code	fiber length	code	connector in/out *	code
2	02	1310 / 1550 nm	A	none	0	0.5 m	A	none	0
						1 m	B	SC/PC	1
						1.4 m	C	FC/PC	2
								SC/APC**	3
								FC/APC	4
								LC/PC	5
								MU/PC	6
								E2000/HRL	7

fiber connection	code	fiber type and packaging	code
in- and output on same side	S	Corning SMF-28™ (9,125,250 μm) 900 μm loose tube	1
in- and output on opposite sides	O	Corning SMF-28™ (9,125,250 μm) 250 μm coating	2
rectangular connection	R	multi mode fiber GI (50,125,250 μm) 900 μm loose tube	3
		multi mode fiber GI (50,125,250 μm) 250 μm coating	4

* device regarded as demultiplexer
** 8° angular polishing

Spectral Performance



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