

# Wideband Wavelength Division Multiplexer - WWDM

## > bandsplitter, WWDM 1310 / 1550



### Features

- Devices may be used as multiplexer or demultiplexer
- High isolation
- Epoxy-free optical path, ITU G.694.2 and Telecording GR1221 compliant
- Low insertion losses
- Packaging on line card or in CWDM sub-system for rack mounting on request

### Applications

- Combines / separates 1310 and 1550nm channels
- Metro Core, Metro Access, Metro Enterprise, Cable TV, 3G Telephony (UMTS), Datacomm, WAN, RFTS, Sensor Applications
- For analog and digital transmission systems

### Specifications

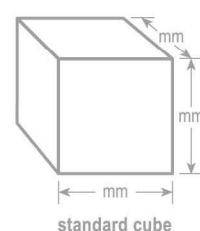
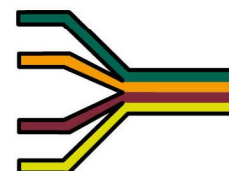
Parameters	Wideband Wavelength Division Multiplexer – WWDM (all values refer to single mode)		
Channels	2 bands		
Center Wavelength [nm]	1310 nm / 1550 nm		
Wavelength range		LWP	SWP
	Reflect Band	1260 nm - 1360 nm	1460 nm - 1620 nm
	Pass Band	1460 nm - 1620 nm	1260 nm - 1360 nm
Insertion Loss *	< 1.0 dB including connector losses		
Isolation **		standard iso	high iso
	Pass Band at Reflect Port	> 15 dB	> 45 dB
	Reflect Band at Pass Port	> 45 dB	> 45 dB
	Isolation Spectral Range 1260 - 1620 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		
Storage Temperature	-40°C to 85°C (when removed from plastic package)		
Package Dimensions	cylindric 4.2 mm diameter and 43 mm length		

\* 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.

Our COLOR-Cubes bring color into play.



standard cube

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**Cube Optics AG**



## Ordering Information

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.

Ordering example: WW-1-L-2-C-S-14-2-A-15

WW -  -  -  -  -  -  -  -  -  -  -

optional features	code
Standard Iso LWP	1*
High Iso LWP	2
Standard Iso SWP	3

Fiber length	code
0.5 m	A
1 m	B

Connector in/out	code
none	0
SC/PC	1
FC/PC	2
SC/APC**	3
FC/APC**	4
LC/PC	5
MU/PC	6
E2000	7
E2000/HRL**	8
ST/PC	9

Fiber type and packaging	code
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*

\* Configuration is not reflected by this datasheet.

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

Further configuration on request!

## Housing

