Supersized Cubes

HUBER+SUHNER

Dense Wavelength Division Multiplexer – DWDM
mux or demux, 4, 8 or 16 channels, 100 GHz

Features

- Low insertion loss.
- High channel isolation.
- Epoxy-free optical path.
- Telcordia compliant.
- 4, 8 or 16-channel DWDM configuration.

Technical Specifications

Parameter				Unit	Specifications		
Channel Spacing				Ch	100 GHz		
Channel Number				Ch	4	8	16
Central Wavelength (lc)				nm	C Band		
Passband			Min.	nm	ITU +/- 0.11		
Isolation	Mux	Adjacent Channel	Min.	dB	12		
		Non-adjacent Channel	Min.	dB	12		
	Demux	Adjacent Channel	Min.	dB	25		
		Non-adjacent Channel	Min.	dB	40		
Insertion Loss1		Mux	Max.	dB	1.7	2.9	3.3
		Demux	Max.	dB	2.0	3.2	3.5
Ripple in Passband			Max.	dB	0.5		
Directivity			Min.	dB	50		
Polarization Dependent Loss			Max.	dB	0.2	0.2	0.2
Polarization Mode Dispersion			Max.	ps	0.20		
Return Loss2			Min.	dB	45		
Fiber Type					Corning SMF-28 with 900 µm buffer		
Fiber Length			Min.	m	1.0 +/- 0.1		
Power Handling			Max.	mW	300		
Operating Temperature				°C	-5 to 70		
Storage Temperature				°C	-40 to 85		
					4ch	**8ch**	**16ch**
Package Dimension		Length	Max.	mm	100	100	120
		Width	Max.	mm	68	68	80
		Height	Max.	mm	9	12	14

[1] Max Insertion loss within channel Pass band over operating temperature range and all states of polarization without optical connectors. The typical connector loss is 0.4 dB for a pair of connectors.
[2] Return loss without optical connectors.

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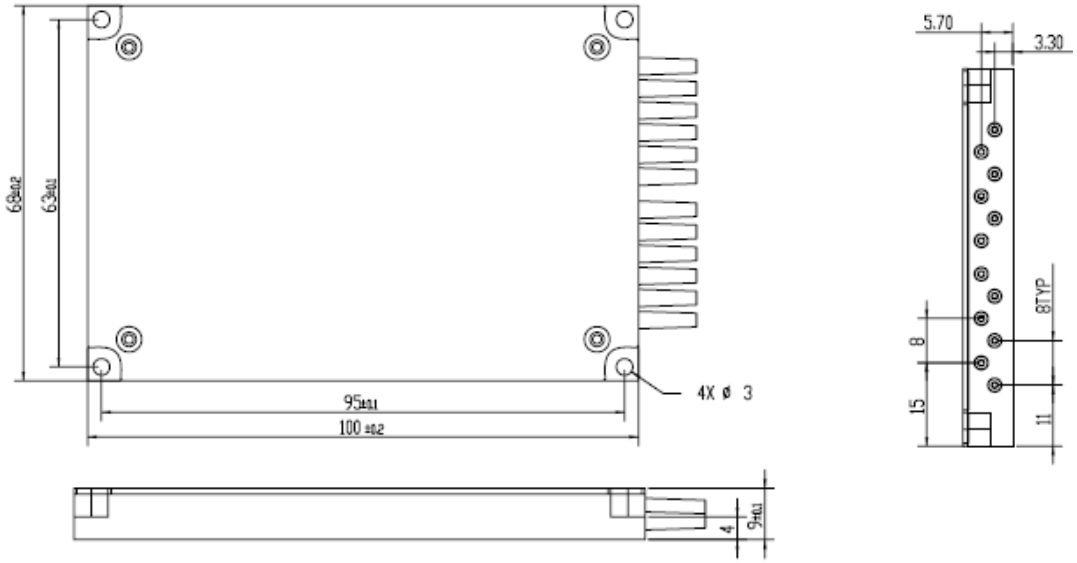
Dimensions



All dimensions in mm.

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.

Ordering example: **CUBO-DWDM100-04-21-A-D-S-A-33**

CUBO-DWDM100 - __ - __ - _ - _ - _ - _ - _ - __

Channel Number
04 = 4 channels
08 = 8 channels
16 = 16 channels
32 = 32 channels

Initial Channel
18 = C18 / 1563.05 nm
:
58 = C58 / 1531.12 nm

Mux / Demux
M = Mux
D = Demux
C = Mux & Demux[1]

Fiber length
A = 0.5 m
B = 1 m

Fiber Type
A = 900 µm loose tube
B = 900 µm tight buffer fiber
C = 2 mm cable
D = 3 mm cable

Packaging
S = Standard

Connector (x) common port (y) DWDM port	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

1 Please specify the function sketch and outline drawing for Mux & Demux integration package when ordering.

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