OCMX-C

Modular coarse wavelength division multiplexers

The coarse wavelength division multiplexing technique combines (or multiplexes) two or more signals with different wavelengths in one common fiber. The same components can also be used to separate the wavelengths (de-multiplexing) at the remote location.

The OCM modular packaging provides a robust and simple method for integrating these devices into your network.

Advantages

- Consistent performance
- Low optical loss
- Low polarization sensitivity
- Excellent mechanical and environmental characteristics
- Fast installation and commissioning
- Housing size varies depending on configuration, providing optimal utilization of space

Applications

- CWDM upgrades in metro networks
- Increase the capacity between the central office and the headend in HFC networks
- CWDM overlay in PON architectures
- LAN

The CWDM components are based on TFF (thin-film-filter) technology.
These components are intended for indoor use.

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Ordering information

OCM ☐X☐ **- C** ☐X☐X☐XX☐X☐XX☐

Size

1	LGX module 29 mm (1.1") wide
2	LGX module 58 mm (2.3") wide
3	LGX module 87 mm (3.4") wide

Type

M	Multiplexing
D	Demultiplexing
X	Double demux (for 2 fiber system)
Y	Double mux (for 2 fiber system)

Number of channels

1	
2	
4	
8	
A	4 channels + upgrade port
B	8 channels + upgrade port
C	4 channels + upgrade + 1310 nm port
D	8 channels + upgrade + 1310 nm port
E	4 channels + 1310 nm port
F	8 channels + 1310 nm port
G	10 channels + 1310 nm port
H	2 channels + upgrade
I	2 channels + upgrade + 1310 nm port
J	5 channels + upgrade + 1310 nm port
K	5 channels + upgrade
L	3 channels + upgrade
N	10 channels
O	18 channels
P	11 channels
U	2 channels + 1310

Connector type

Min.return loss	SC	FC	E2000	LC	MU
50 dB (UPC)*	**S1**	**F1**		**L1**	**U1**
60 dB (APC 8°)*	**S2**	**F2**	**E9**	**L2**	
60 dB (APC 9°)*	**S3**				

* UPC Ultra polished physical contact
* APC Angled polished physical contact

Channel spacing/sequence

1	20 nm e.g. 1270, 1290, 1310, ...
2	40 nm e.g. 1270, 1310, 1350, ...
0	One channel only

Starting wavelength

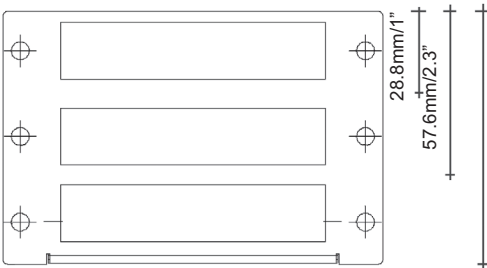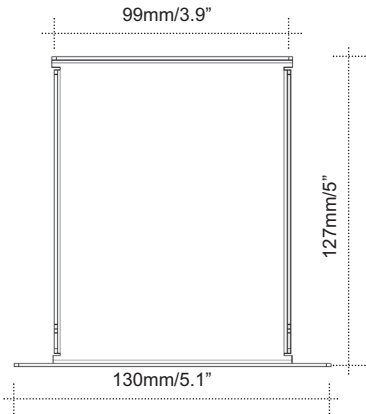|	
27	1270 nm
29	1290 nm
⋮	⋮
61	1610 nm

Example

OCM2-CMC47152
4 channels CWDM multiplexers with 1310nm pass-through and upgrade port; 1470-1490-1510-1530 nm; 7 SC/APC connectors.

Performance specifications

Please refer to RUD proposal 5336.

Note

Not all configurations are possible. Please consult your local sales engineer for confirmation.

99mm/3.9"

127mm/5"

130mm/5.1"

28.8mm/1"

57.6mm/2.3"

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