



OCMX-C

Modular Coarse Wavelength Division Multiplexing

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.

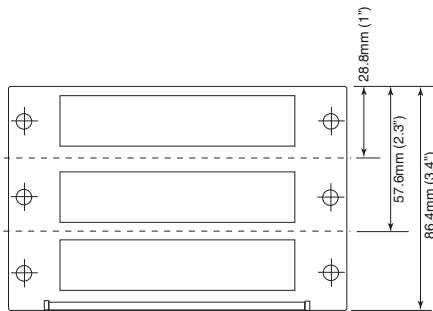
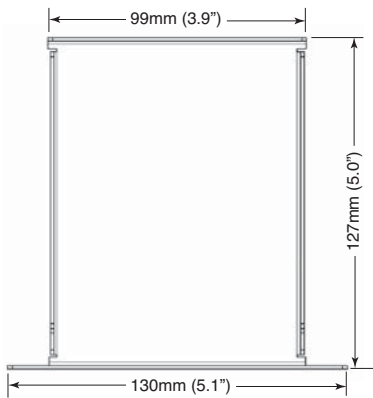
EnLighten

FTTH Network Solutions

 **Tyco Electronics**

Our commitment. Your advantage.

OCM1, OCM2, and OCM3
Dimensions



OCM X - C X X XX X XX

Size

- 1 LGX module 1.1" (29mm) wide
- 2 LGX module 2.3" (58mm) wide
- 3 LGX module 3.4" (87mm) wide
- F High density module 0.6" (16mm) wide**

Type

- M Multiplexing
- D Demultiplexing
- Y Double mux (for 2 fiber system)
- X Double demux (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 port
- I 2 channels + upgrade + 1310 nm port
- J 5 channels + upgrade + 1310 nm port
- K 5 channels + upgrade port
- L 3 channels + upgrade port
- N 10 channels
- O 18 channels
- P 11 channels
- U 2 channels + 1310 nm port

Connector Type

Min. return loss	Connector Type			
	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

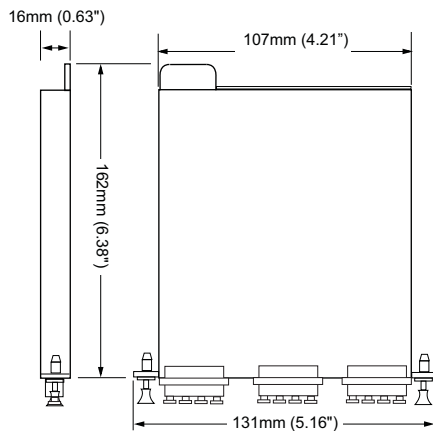
Channel sequence

- 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

OCMF Dimensions



Example

OCM2-CMCA471S2
4 channels CWDM multiplexers with 1310 nm pass-through and upgrade port. 1470-1490-1510-1530 nm; 7 SC/APC connectors.

Note

Not all configurations are possible. Please consult your local sales engineer for confirmation.
** Requires Tyco Electronics customized shelf for installation.

Performance specifications

Refer to proposal 5336.

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