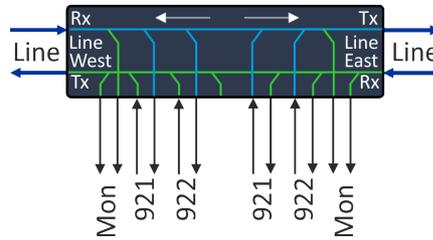
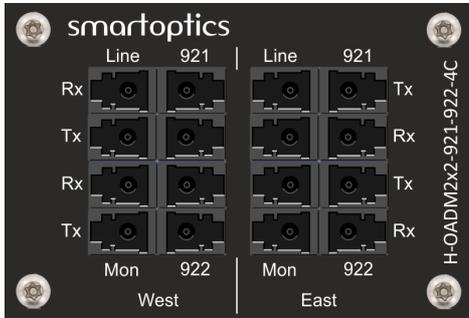


H-OADM2X2-xxx-yyy-4C

2-channel 400G 16QAM DWDM 2-way OADM with Monitor ports



OVERVIEW

The H-OADM2x4-xxx-yyy-4C is a two-way 2ch DWDM add/drop filter where the channel passband width is wide enough to support 400G 16QAM signals. The H-OADM2x2-xxx-yyy-4C filters are part of the 400G supporting filter family which is shown via the suffix “-4C” in the part number. There are ten different filter products that together will cover 20 channels 921 to 940. The additional channels up to 960 can be added upon request.

The filter has two add/drop ports and one Line port facing “east” direction and a same setup for “west” direction. Channels outside the add/drop channel bands are glassed through the filter. The channel band from Extension to Line ports is 1460 -1630nm to enable e.g. OTDR signals to pass through the filters.

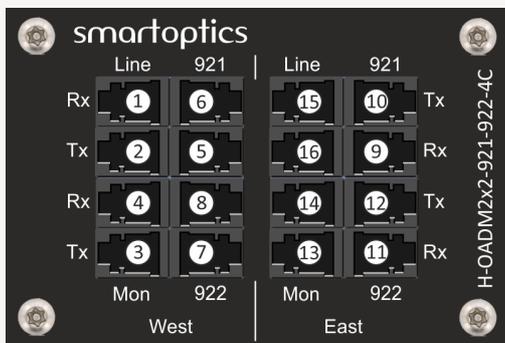
The monitor ports (Mon) tap off 1% of the transmitted and received Line signal. This provides the ability to monitor the channel power levels via a connected Optical Channel Monitoring (OCM) device or an optical spectrum analyzer. The DWDM channels are compliant with ITU-T G.694.1.

The H-OADM2x2-xxx-yyy-4C filters support the industrial temperature (I-temp) range of -40°C to +85°C (-40°F to +185°F) which gives an extended application range into sites without temperature control. The table with optical parameters below lists values at C-temp and I-temp conditions

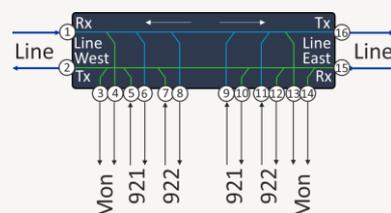
The H-Series filters are mounted in a 1 RU mounting bracket solution, and the filter module sizes vary depending on type of filter.

FUNCTIONAL OVERVIEW AND PORT DESCRIPTION

Signals entering the filter are denoted “Rx”. Signals exiting the filter are denoted “Tx”. The Monitor ports are both Tx-ports, but “Mon Tx” refers to the Line Tx port while “Mon Rx” refers to Line Rx port.



Line West Rx	921 West Tx	Line East Rx	921 East Tx
Line West Tx	921 West Rx	Line East Tx	921 East Rx
Mon West Rx	922 West Tx	Mon East Rx	922 East Tx
Mon West Tx	922 West Rx	Mon East Tx	922 East Rx



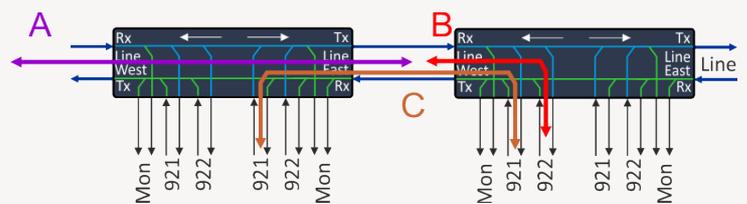
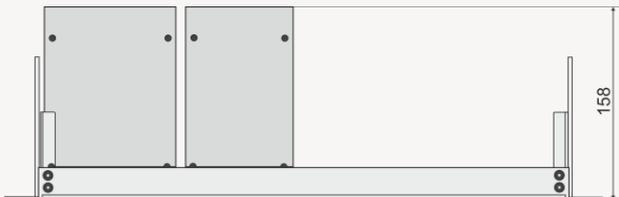
The port allocation and overlay example is for H-OADM2X2-921-922-4C. Note row dependent location of Tx and Rx ports. This is to match duplex connectors.

Subject to change without notice.

For more information visit smartoptics.com.

TECHNICAL SPECIFICATIONS

Parameter	C-temp Conditions	I-temp conditions
Channels H-OADM2x2-921-922-4C	192.1 + 192.2 THz	⇐ (same as C-temp)
H-OADM2x2-923-924-4C	192.3 + 192.4 THz	⇐
H-OADM2x2-925-926-4C	192.5 + 192.6 THz	⇐
H-OADM2x2-927-928-4C	192.7 + 192.8 THz	⇐
H-OADM2x2-929-930-4C	192.9 + 193.0 THz	⇐
H-OADM2x2-931-932-4C	193.1 + 193.2 THz	⇐
H-OADM2x2-933-934-4C	193.3 + 193.4 THz	⇐
H-OADM2x2-925-926-4C	193.5 + 193.6 THz	⇐
H-OADM2x2-937-938-4C	193.7 + 193.8 THz	⇐
H-OADM2x2-939-940-4C	193.9 + 194.0 THz	⇐
Channel spacing	100GHz ITU G.694.1	⇐
Channel passband -3dB	Min 72.5GHz	⇐
Passband Ext Rx ⇔ Line Tx, excl add/drop ch	1460 -1630nm / 183.92 to 205.34THz excl. ch passband	⇐
Link loss, per channel, Ch Rx⇔Line E Tx⇔Line W Rx⇔Ch Tx (C)	≤ 2.2dB	≤ 2.6dB
Add-drop loss, per channel Ch Rx⇔ Line Tx (B)	≤ 1.2dB	≤ 1.4dB
Through loss, Line E Rx⇔Line W Tx (A)	≤ 2.2dB	≤ 2.4dB
Insertion loss, monitor	18-22dB without including the mux, demux or passband loss	⇐
Isolation, adjacent channel	≥ 28dB	⇐
Isolation, non-adjacent channel	≥ 40dB	⇐
Ripple, passband	≤ 0.5dB	⇐
Directivity	≥ 45dB	⇐
Return loss	≥ 40dB	⇐
Max power handling	Up to 500mW	⇐
Operating temperature	0°C - +70 °C	-40°C - +85 °C
Connector type	LC/U/PC	⇐
Mounting	H-Series, 65mm wide	⇐



ORDER INFORMATION

Part number	Part number
H-OADM-2x2-921-922-4C	H-OADM2x2-931-932-4C
H-OADM2x2-923-924-4C	H-OADM2x2-933-934-4C
H-OADM2x2-925-926-4C	H-OADM2x2-935-936-4C
H-OADM2x2-927-928-4C	H-OADM2x2-937-938-4C
H-OADM2x2-929-930-4C	H-OADM2x2-939-940-4C

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