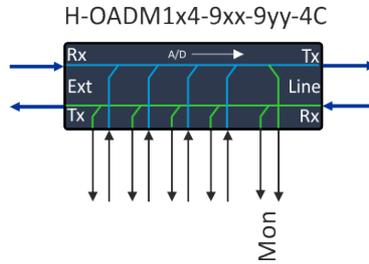
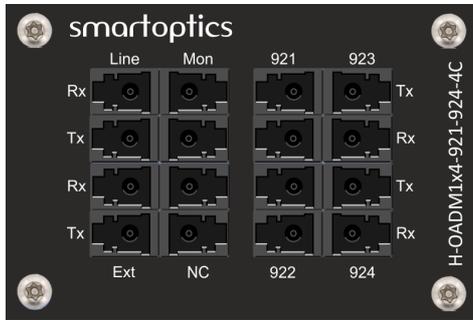


H-OADM1X4-xxx-yyy-4C

4-channel 400G 16QAM DWDM 1-way OADM with Monitor ports



OVERVIEW

The H-OADM1x4-xxx-yyy-4C is a one-sided 4ch DWDM add/drop filter where the channel bandwidth is wide enough to support 400G 16QAM signals. The H-OADM1x4-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 the 40ch DWDM band 921 to 960.

The filter has four add/drop ports, one Line port and one Extension port. The Line-port shall always be directed inwards the connection. Channels outside the add/drop channel bands are glassed through the filter. The Extension port is extremely wide, covering 1264 -1630nm which opens for a wide variety of combinations of LANWDM, CWDM, DWDM and OTDR solutions over the same infrastructure. The bandwidth even extends up to 1670, but with a slightly higher loss.

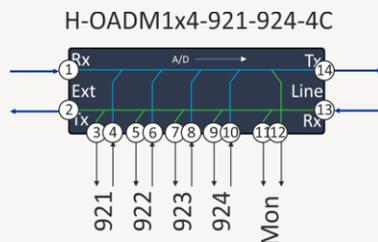
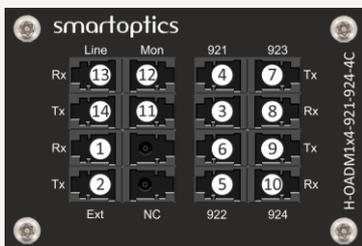
The monitor ports (Mon) tap off 1% of the transmitted and received Line signal. This provides the ability to monitor the channel power levels via a connected Optical Channel Monitoring (OCM) device or an optical spectrum analyzer. The DWDM channels are compliant with ITU-T G.694.1.

The H-OADM1x4-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.

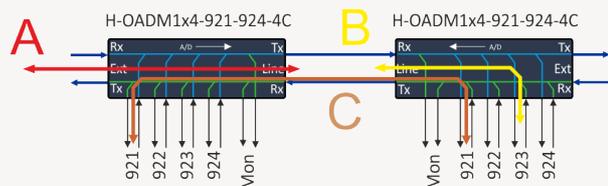
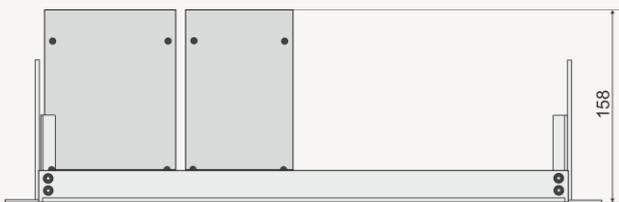


Line Rx	Mon Ext Tx	921 Rx	923 Tx
Line Tx	Mon Ext Rx	921 Tx	923 Rx
Ext Rx	NC	922 Rx	924 Tx
Ext Tx	NC	922 Tx	924 Rx

The port allocation and overlay example is for H-OADM1X4-921-924-4C. Note row dependent location of Tx and Rx ports.

TECHNICAL SPECIFICATIONS

Parameter	C-temp Conditions	I-temp conditions
Channels H-OADM1x4-921-924-4C	921, 922, 923, 924	⇐ (same as C-temp)
H-OADM1x4-925-928-4C	925, 926, 927, 928	⇐
H-OADM1x4-929-932-4C	929, 930, 931, 932	⇐
H-OADM1x4-933-936-4C	933, 934, 935, 936	⇐
H-OADM1x4-937-940-4C	937, 938, 939, 940	⇐
H-OADM1x4-941-944-4C	941, 942, 943, 944	⇐
H-OADM1x4-945-948-4C	945, 946, 947, 948	⇐
H-OADM1x4-949-952-4C	949, 950, 951, 952	⇐
H-OADM1x4-953-956-4C	953, 954, 955, 956	⇐
H-OADM1x4-957-960-4C	957, 958, 959, 960	⇐
Channel spacing	100GHz ITU G.694.1	⇐
Channel passband -3dB	Min 72.5GHz	⇐
Passband Ext Rx ⇔ Line Tx, excl add/drop ch	1264 -1630nm / 183.9 to 237.2THz excl. ch passband	⇐
Insertion loss Ext Rx ⇔ Line Tx (A)	≤ 0.9dB	≤ 1.0dB
Channel insertion loss: Line Rx ⇔ Ch Tx (B)	≤ 2.2dB	≤ 2.5dB
Channel link loss, Ch Rx ⇔ Line Tx ⇔ Line Rx ⇔ Ch Tx (C)	≤ 3.6dB	≤ 4.0dB
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/UPC	⇐
Mounting	H-Series, 65mm width	⇐



ORDER INFORMATION

Part number	Part number
H-OADM1x4-921-924-4C	H-OADM1x4-941-944-4C
H-OADM1x4-925-928-4C	H-OADM1x4-945-948-4C
H-OADM1x4-929-932-4C	H-OADM1x4-949-952-4C
H-OADM1x4-933-936-4C	H-OADM1x4-953-956-4C
H-OADM1x4-937-940-4C	H-OADM1x4-957-960-4C

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