

H-MD-32-9140-9605

32-channel DWDM Mux/Demux, 150GHz, with Monitor ports

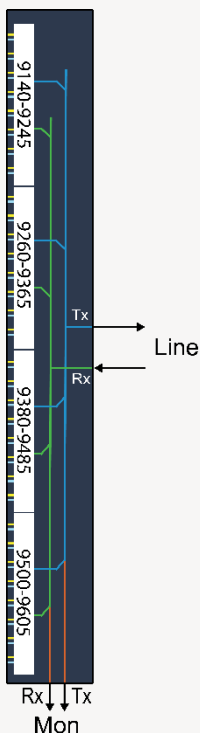


OVERVIEW

The H-MD-32-9140-9605 filter is a 32-channel DWDM protocol transparent Mux/Demux unit in accordance with 150GHz grid. The channels operate in the standard C-band in dual fiber working configuration. The H-MD-32-9140-9605 has two Monitor ports that 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.

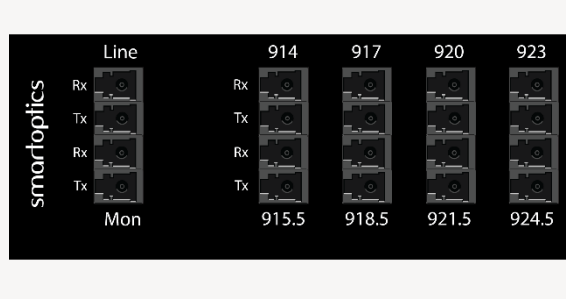
The H-MD-32-9140-9605 is based on athermal AWG technology and is totally passive. This technology is restricted to -5 to +65°C operating temperature.

FUNCTIONAL OVERVIEW AND PORT DESCRIPTION



Client and Line signals entering the filter is denoted "Rx".
Client and Line signals exiting the filter is denoted "Tx".

The monitor ports tap off 1% (18 - 22dB) of the line signal.
The monitor port from transmitted line signal is denoted "Tx".
The monitor port from received line signal is denoted "Rx".



TECHNICAL SPECIFICATIONS

Parameter	
Channels	191.4 to 196.05 THz
Channel spacing	150GHz
Channel passband 1.0dB	100GHz
Channel passband 3.0dB	150GHz
Insertion loss, per channel (ch Rx ⇒ Line Tx)	Max 6.0dB
Insertion loss, Line Rx -> Mon Rx	18dB to 22dB
Insertion loss, Channel Rx -> Mon Tx	28dB
Isolation, adjacent channel ¹⁾	Min 9dB
Isolation, non-adjacent channel ²⁾	Min 30dB
Ripple, passband	Max 0.5dB
Return loss	Min 40dB
Chromatic dispersion	Min -20ps/nm Max 20ps/nm
Polarization mode dispersion	Max 1.0ps
Connector type	LC/UPC
Dimensions	1RU height, 19" rack mount
Operating temperature	-5 to + 65 °C
Storage temperature	-40 to + 85 °C
Max optical power	Max 24dBm (251mW)

1) Maximum insertion loss difference from the mean transmission at the 150GHz grid wavelength to the highest power, all polarizations, within the band of the two adjacent channels.

2) Total cumulative insertion loss difference from the mean transmission at the 150GHz grid wavelength to the highest power, all polarizations, within the band of the two adjacent channels.

ORDER INFORMATION

Part number	Description
H-MD-32-9140-9605	H-Series: 1RU 19", 32ch, DWDM Mux/Demux + Mon-port, 191.4-196.05THz, Insertion-loss channel=6.0dB, LC/UPC

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