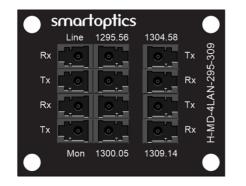
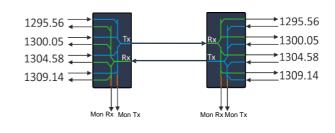
H-MD-4LAN-295-309

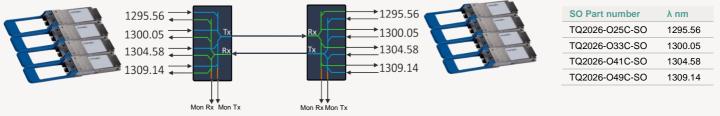
4-channel LANWDM Mux/Demux with Monitor ports





OVERVIEW

The H-MD-4LAN-295-309 filter is a LANWDM Mux/Demux covering four of the LANWDM wavelengths 1295.56nm, 1300.05nm, 1304.58nm and 1309.14nm. The filter can as an example be used with LANWDM transceivers or as a 4x100G configuration using single lambda 100G O-BAND DWDM transceivers shown in the figure below. A table of the corresponding 100G transceivers is also listed next to the figure. For further info on the 100G O-Band DWDM transceivers, see datasheet of TQ2026-OxxC-SO.

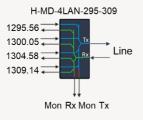


The H-MD-4LAN-EM-SFx filters have a Monitor port that tap off 1% of the transmitted and received line signal. This provides the ability to monitor the channel power levels via a connected Optical Channel Monitoring (OCM) device or an optical spectrum analyzer.

The H-MD-4LAN-EM-SFx 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.

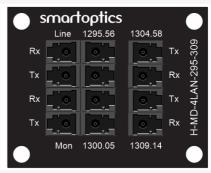
The H-Series filters are mounted in a 1 RU mounting bracket solution, and the filter module sizes vary depending on type of filter.

FUNCTIONAL OVERVIEW AND PORT DESCRIPTION



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

Line Rx	1295.56 Tx	1304.58 Tx
Line Tx	1295.56 Rx	1304.58 Rx
Mon Rx	1300.05 Tx	1309.14 Tx
Mon Tx	1300.05 Rx	1309.14 Rx



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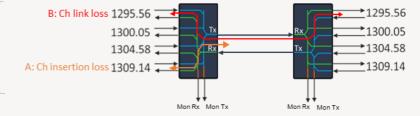
TECHNICAL SPECIFICATIONS

Parameter	C-temp conditions	I-temp Conditions
Transmitted channels H-MD-4LAN-EM-SFA	1295.56nm, 1300.05nm, 1304.58nm, 1309.14nm	⇒
Channel spacing	800GHz	⇐
Channel passband -3dB	±1.15nm	¢
Insertion loss, per LANWDM channel (A)	Max 1.7 dB	Max 1.9dB
Link loss, per LANWDM channel (B)	Max 3.0dB	Max 3.5dB
Insertion loss, monitor	18-22dB without including the mux, demux or passband loss	¢
Isolation, adjacent channel	Min 25dB	⇐
Isolation, non-adjacent channel	Min 40dB	⇐
Ripple, passband	Max 0.5dB	⇐
Directivity	Min 45dB	⇐
Return loss	Min 40dB	¢
Polarization dependent loss	Max 0.2dB	⇐
Polarization mode dispersion	Max 0.20ps	⇐
Max power handling	Max 300mW	¢
Operating temperature	0°C - +70 °C	-40°C - +85 °C
Connector type	LC/UPC	¢
Module width	55mm	¢
Mounting	H-Series	¢



Mounting bracket dimensions with two example filters.





ORDERING INFORMATION

Part number	Description
H-MD-4LAN-295-309	H-Series: 4ch LANWDM Mux/Demux + Mon-ports, 1295.56/1300.05/1304.58/1309.14nm, 55mm, Link-loss = 3.5dB, LC/UPC

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