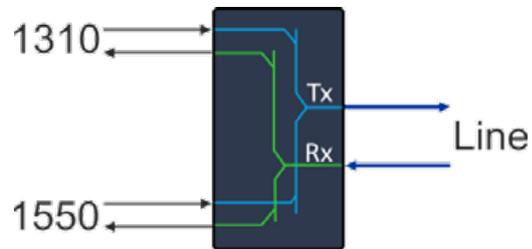
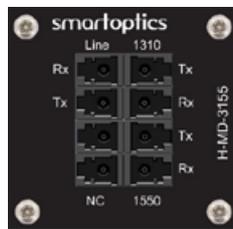


DATASHEET 5.0

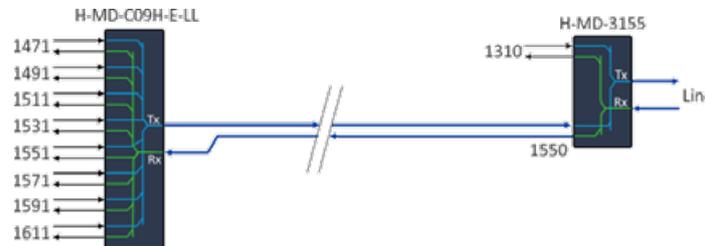
H-MD-3155

1310/1550nm band MuxDemux



OVERVIEW

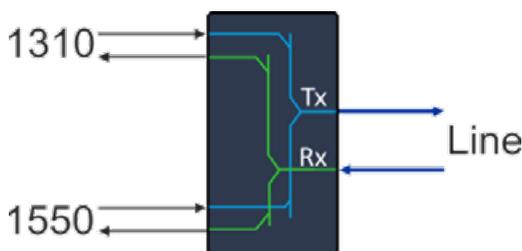
The H-MD-3155 is a 1310/1550nm band Mux/Demux unit. The H-MD-3155 band filter is intended for cases where a legacy 1310nm channel is to be combined with CWDM channels in the upper CWDM band (1460 nm - 1630 nm) or DWDM channels. The figure shows an example configuration with the H-MD-C09H-E-LL filter.



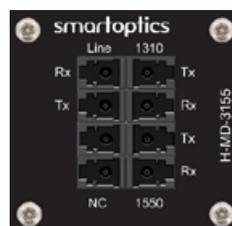
The H-MD-3155 filter supports the industrial temperature (I-temp) range of -40°C to +85°C (-40°F to +185°F) which gives an extended application range into sites without temperature control. If the operating temperature is kept within 0 to +70°C (+32 to +158°F) some of the worst-case loss values will be reduced. The listed loss values in the below table are for 0 to +70°C operation. Loss values increased at I-temp conditions are marked.

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



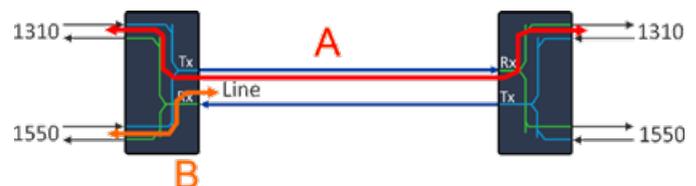
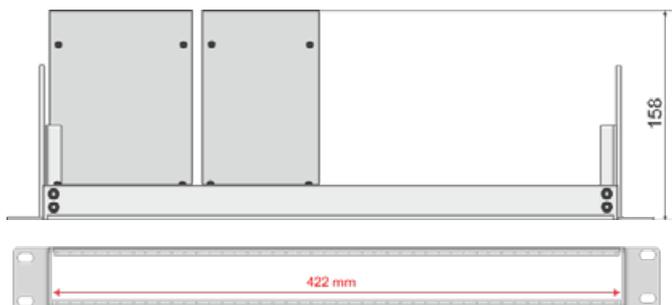
Line Rx	1310 Tx
Line Tx	1310 Rx
Not Connected	1550 Tx
Not Connected	1550 Rx

TECHNICAL SPECIFICATIONS

Parameter	Min	Max
Operating wavelength range 1310 port	1270nm	1350nm
Operating wavelength range 1550 port	1460nm	1630nm
Insertion loss (B)	0.8dB typical ¹⁾	1.0dB typical ¹⁾
Link loss (A)	1.3dB typical ¹⁾	1.5dB typical ¹⁾
Isolation, Line Tx <=1310	30dB	
Isolation, Line Tx <=1550	12dB	
Ripple, passband		0.5dB
Directivity	50dB	
Return loss	40dB	
Polarization dependent loss		0.2dB
Polarization mode dispersion		0.20ps
Max optical power		300mW
Connector type	LC/UPC	
Module width	45mm	
Normal operating temperature	0 °C	+70 °C
Extended operating temperature (I-temp) ¹⁾	-40 °C	+85 °C
Storage temperature	-40 °C	+85 °C
Mounting bracket	H-Chassi-1RU (19"), 422 mm slot width	
Mounting depth (flush mount)	158mm	

Note! A typical loss value is to be seen as a value that ~90% of a population has at beginning of life and at room temperature. The max value is the guaranteed worst-case value over time and over temperature.

1) The given loss values are for "normal operating temperature" conditions. When used in "extended operating temperature" i.e. I-temp conditions, the values shall be increased by 0.2dB.



Mounting bracket dimensions with two example filters.

ORDERING INFORMATION

The table below shows part number and a short description.

Part number	Description
H-MD-3155	1310/1550nm band MuxDemux