

DATASHEET 5.0

H-MD-40-921-960

40-channel DWDM Mux/Demux with Monitor ports



OVERVIEW

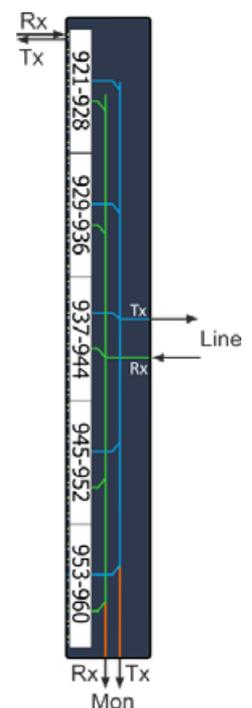
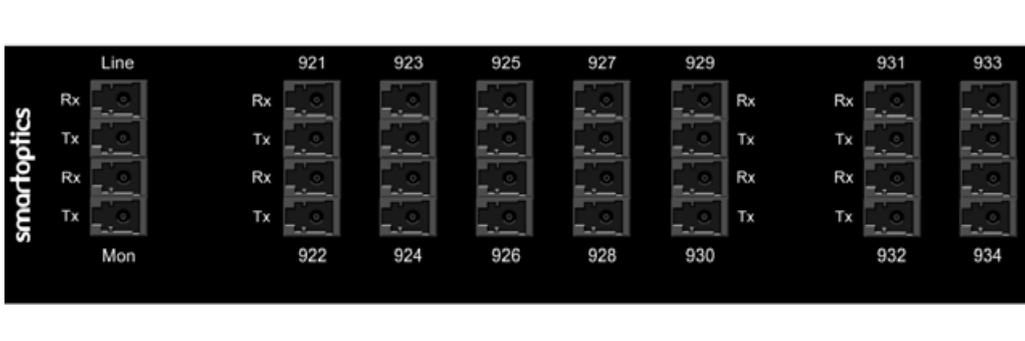
The H-MD-40-921-960 filter is a 40-channel DWDM protocol transparent Mux/Demux unit in accordance with the ITU-T G.694.1 100GHz grid. The channels operate in the standard C-band in dual fiber working configuration. The H-MD-40-921-960 has two Monitor ports that tap off 1% of the transmitted and received 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-40-921-960 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".

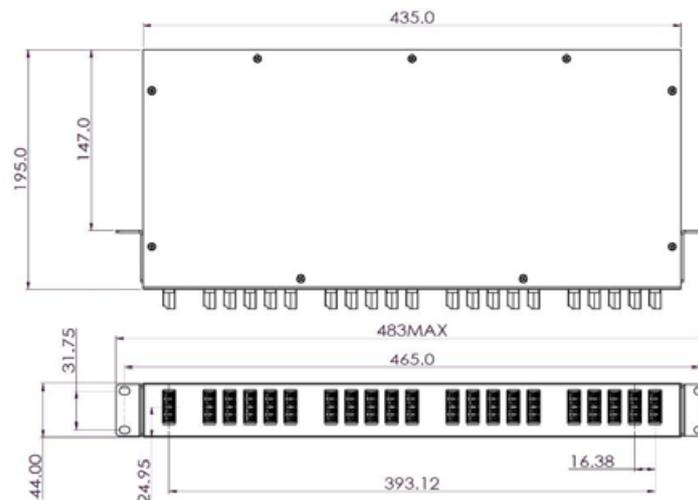


TECHNICAL SPECIFICATIONS

Parameter	Min	Max
Operating wavelength range	1500nm	1600nm
Channels	192.1 THz	196.0 THz
Channel spacing	100GHz	
Channel passband 1.5dB	ITU±0.11nm	
Channel passband 1.5dB	60GHz	
Channel passband 3.0dB	80GHz	
Insertion loss, per channel (ch Rx -> Line Tx)	5.4dB	5.9dB
Insertion loss, monitor	18dB	22dB
Isolation, adjacent channel ¹⁾	8dB	
Isolation, non-adjacent channel ²⁾	5dB	
Ripple, passband		1.0dB
Return loss	40dB	
Chromatic dispersion	-20ps/nm	20ps/nm
Polarization mode dispersion		0.70ps
Connector type	LC/UPC	
Dimensions	1RU height, 19" rack mount	
Operating temperature	-5 °C	+65 °C
Storage temperature	-40 °C	+85 °C
Max optical power		24dBm

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

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



ORDERING INFORMATION

Part number	Description
H-MD-40-921-960	H-Series: 1RU 19", 40ch DWDM Mux/Demux + Mon-port, 192.1 to 196.0THz, Link-loss channel=11.8dB, Insertion-loss channel=5.9dB, LC/UPC