

Datasheet

Multichannel CWDM Multiplexer 19"



General

The passive 19" multiplexers from MICROSENS are the heart of CWDM infrastructures (according to ITU-Grid Standard G.694.2).

As a passive unit in connection with an active MSP1000/MSP3000-CWDM system, the multiplexers serve the typical 8-channel CWDM spectrum depending on the version; the 18-channel version enables a significantly higher capacity.

In combination with the active transponder modules from MICROSENS the concept allows many combinations to achieve an optimal solution and enables a seamless migration path with low first-in-costs.

All filters are supplied with LC-connections (duplex), which match the standard interfaces of a CWDM infrastructure.

In addition to the standalone versions of the CWDM filters, MICROSENS also offers modular counterparts with 8-channel or 8+E-channel modules for integration into MSP1000 chassis.

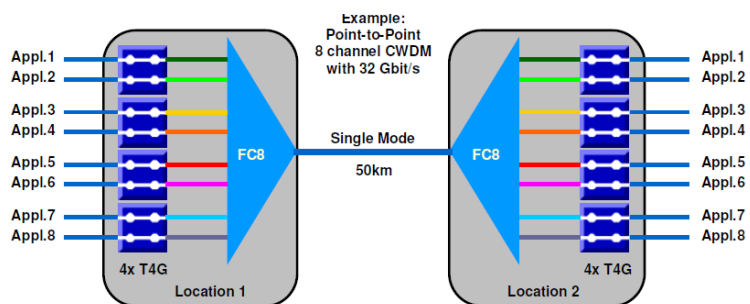
Technical Details

Type	CWDM-Multiplexer 19"	
Versions / Channel quantity	MS419860-33	8-Channel Multiplexer CWDM
	MS419863-33	18-Channel Multiplexer CWDM
Conections	All Connections in LC/PC duplex (local / line)	
Fiber-Cable Type	SMF-28e	
Power Supply	No power supply needed	
Dimensions	19" (1U)	
Data Rates	independet	
Operating temp.	-10..+70°C	
Storage temp.	-40..+85°C	

Optical Parameter

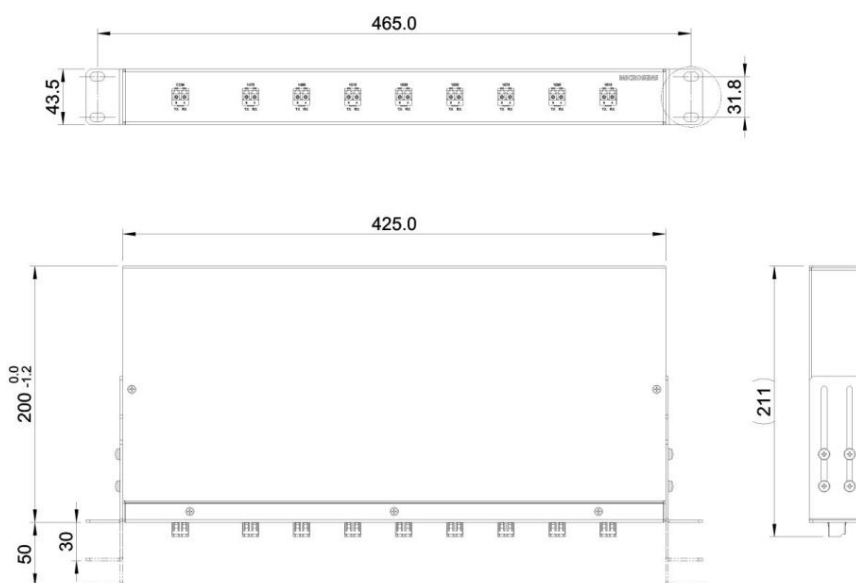
	MS419860-33	MS419863-33
Channel distance	20 nm	20 nm
Wavelengths	1470,1490,1510,1530, 1550,1570,1590,1610	1270,1290,1310,1330,1350, 1370,1390,1410,1430,1450, 1470,1490,1510,1530,1550, 1570,1590,1610
Isolation		
Adjacent Channel	min. 30 dB	min. 37 dB
Non-Adjacent Channel	min. 40 dB	min. 50 dB
Channel Passband	+/- 6.5nm	+/- 6.5nm
Insertion Loss		
Passband IL	max. 3.1 dB	max. 5.6 dB
Mux/DeMux IL comb.	max. 4.2 dB	max. 6.9 dB
Polarization Dependent Loss	max. 0.1 dB	max. 0.2 dB
Polarization Mode Dispersion	max 0.2 ps	max. 0.5 ps
Directivity	min. 50 dB	min. 50 dB
Return Loss	min. 45 dB	min. 45 dB
Power Handling	max. 300 mW	max. 300 mW

Example of application

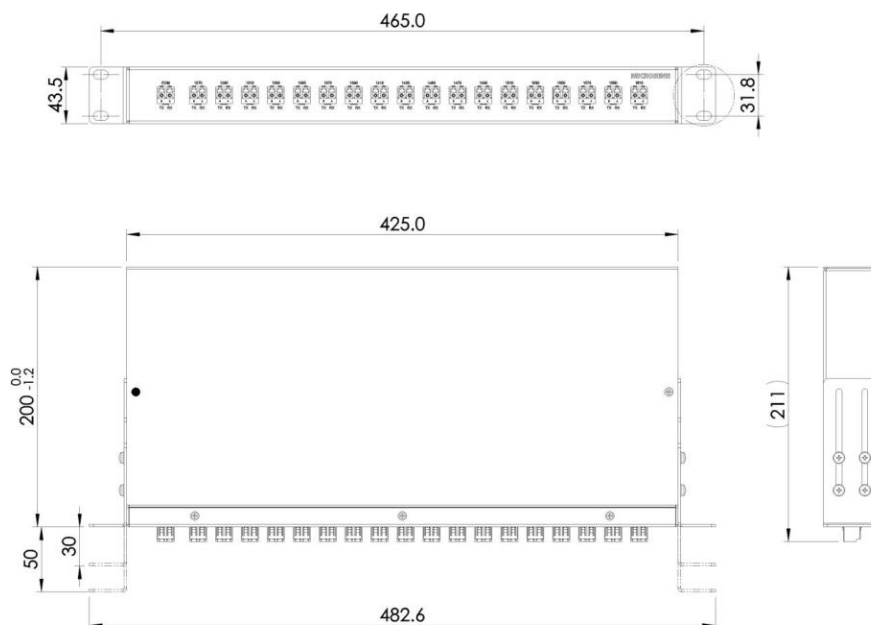


Dimensions

MS419860-33:



MS419863-33:



Order Information

Description	Art.-No.
8-Channel CWDM MUX/DEMUX 19" 1U 1470-1610nm, Local:8x LC/PC duplex, Line:1x LC/PC duplex	MS419860-33
18-Channel CWDM MUX/DEMUX 19" 1U 1270..1610nm, Local: 18x LC/PC duplex, Line:1x LC/PC duplex	MS419863-33

Alternativ CWDM-Multiplexer

Description	Art.-No.
MSP1000 Multiplexermodule	
MSP1000 8-Channel CWDM-Filtermodule Mux/DeMux, 1470..1610nm 8x LC/PC duplex, Line 1x LC/PC duplex	MS425738-47
MSP1000 8+E-Channel CWDM-Filtermodule Mux/DeMux, 1470..1610nm 8x LC/PC duplex, E-Port 1270..1431nm 1x LC/PC duplex, Line 1x LC/PC duplex	MS425738E-47
MSP1000 Chassis	
MSP1000 Enterprise 4U Chassis AC 19" 2 Slots for 2x 230 VAC-power supplies prep., 11 Moduleslots, incl. Backplane, incl. 3-fold Fan module	MS425500M
MSP1000 1U Chassis DC 19" 3 Moduleslots, incl. Backplane, incl. Fan module	MS425504M-48-V2
MSP1000 1U Chassis 19" passiv 3 Moduleslots for passiv Application modules	MS425505M

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