



MX-CWDM Series Muxes and DeMuxes

Customizable 4, 8, and 16 port Muxes



Description

The Maxcom Coarse Wavelength Division Multiplexer & DeMultiplexer (CWDM Mux DeMux) is designed for multi-wavelength CWDM network applications. Muxes are based on the Thin Film Filter (TFF) technology and operate at 20nm channel spacing ITU Grid CWDM wavelengths from 1270nm to 1610nm. Maxcom provides a series of customized CWDM Mux DeMux within a 19" 1U rackmount, or optional LGX or ABS style box.

Parameter		4 Channel		8 Channel		16 Channel	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)		1270 ~ 1610					
Center Wavelength Accuracy (nm)		±0.5					
Channel Spacing (nm)		20					
Channel Pass band (@-0.5 bandwidth) (nm)		>13					
Insertion Loss (dB)		≤1.8		≤2.8		≤5.6	
Channel Uniformity (dB)		≤0.6		≤1.0		≤1.5	
Channel Ripple (dB)		< 0.3					
Isolation (dB)	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
Insertion Loss Temperature Sensitivity (dB/°C)		<0.005					
Wavelength Temperature Shifting (nm/°C)		<0.002					
Polarization Dependent Loss (dB)		<0.1					
Polarization Mode Dispersion (ps)		<0.1					
Directivity (dB)		>50					
Return Loss (dB)		>45					
Maximum Power Handling (mW)		300					
Operating Temperature (F)		-40c ~ +85c					
Connector types		LC/UPC, SC/APC, SC/UPC					
Package Dimension for standard 1RU Rack Mount (LGX and ABS styles also avail. (inch)		19" Rack Mount				L10 × W19 × H1.75	

Any wavelength may be ordered and customized, standard models are built in a 19" 1U rackmount chassis with LC/UPC connectors as follow:

4 port (1550, 1570, 1590, 1610nm)

8 port (1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610nm)

16 port (1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610nm)