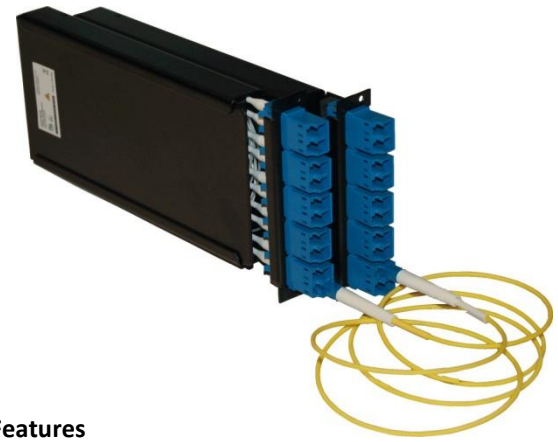
norwia

CWDM-8ULE-1xxx-1xxx

Ultra Low Loss 8 and 16 Channel CWDM Filter/Mux with Express port for Video and Data applications

Data Sheet



Description

The CWDM-8ULE-1xxx-1xxx are Ultra Low Loss passive CWDM MUX/DMUX filters that fit with the miniHUB frame.

Each CWDM filter has 10 ports, 8 ports for accepting the CWDM wavelengths and a common port that combines the 8 channels for feeding to and from your fiber network. These filters also have and EXPRESS port which allows these units to be cascaded into a larger 16 channel CWDM system.

These filters use the LC/PC fiber connectors that are preferred by SMPTE

With two of these filters you can obtain a 16 channel CWDM system in a 1 rack unit miniHUB frame, that's compact.

These filters are shipped in pairs of one MUX and one DMUX.

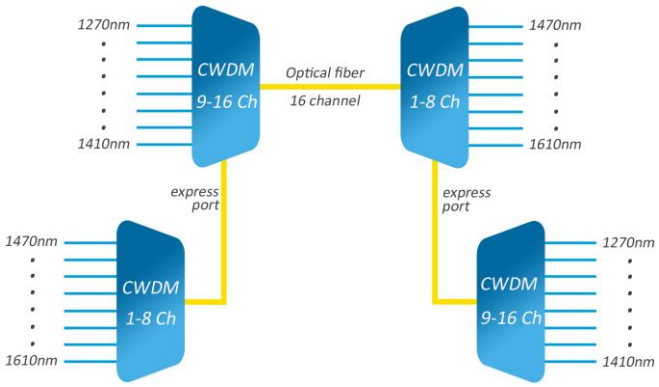
Part Number Options

Part Number	Channel wavelengths (nm)	Temperature *)
CWDM-8ULE-1270-1410	1270 ~ 1410	0°C to +40°C
CWDM-8ULE-1470-1610	1470 ~ 1610	0°C to +40°C

*) Rated temperature for the complete miniHUB.

Features

- Ultra Low Loss performance with max 2.6dB loss end to end on an 8 channel system
- Ultra Low Loss performance with max 4.9dB loss end to end on a 16 channel system
- Up to 16 channels per fiber
- Easy upgrade from 8 to 16 channels
- Express port can be used for +1 channel communication (1310nm or 1550nm)
- Compliant to SMPTE 297-2006
- Compliant to ITU-T G.694.2
- High isolation allowing bi-directional traffic
- LC/UPC connector



Absolute Maximum Ratings

Absolute maximum ratings are those values beyond which functional performance is not intended, device reliability is not implied, and damage to the device may occur.

Parameter	Minimum	Maximum	Unit
Storage temperature (non-operating)	-40	+85	°C
Relative Humidity (non-condensing)	5	95	%

Recommended Operating Conditions

Parameter	Minimum	Typical	Maximum	Unit
Case operating temperature:	-10		+65	°C
Relative Humidity (non-condensing)	5		90	%

Optical Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Number of Channels	8 + Common + Express (16 when using 2 filters with express connection)			
Operating Center Wavelenth				
CWDM-8ULE-1270-1410:	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410			nm
CWDM-8ULE-1470-1610:	1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610			nm
Channel Spacing	20			nm
Insertion Loss, CWDM Pass Channels (including connector loss)				nm
CWDM-8ULE-1270-1410:			1.8	dB
CWDM-8ULE-1470-1610:			1.3	dB
Insertion Loss, Express Port (including connector loss)				nm
CWDM-8ULE-1270-1410:			1.8	dB
CWDM-8ULE-1470-1610:			1.3	dB
Channel Ripple			0.5	dB
Isolation, Adjacent Channel	30			dB
Isolation, Non-Adjacent Channel	45			dB
Isolation, Express Port	15			dB
Polarization Dependant Loss			0.2	dB
Polarization Mode Dispersion			0.2	ps
Directivity	50			dB
Return Loss	45			dB
Connector	LC/UPC			
Transmitting circuit fiber	Single Mode (9/125µm) of type SMF-28e			

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