

CWDM-18-1270-1610

18 Channel CWDM Filter/Mux for Video and Data applications

Data Sheet



Description

The CWDM-18-1270-1610 is a passive CWDM MUX / DMUX filter that fit with the miniHUB frame.

Each CWDM filter has 19 ports, 18 ports for accepting the CWDM wavelengths and a common port that combines the 18 channels for feeding to and from your fiber network.

These filters use the LC/PC fiber connectors that are preferred by SMPTE. It is also available with SC/PC connector for main fiber connection (COM)

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

Features

- Low Loss performance with max 5.4dB loss end to end for all the 18 channels
- Up to 18 channels per fiber
- Compliant to SMPTE 297-2006
- Compliant to ITU-T G.694.2
- High isolation allowing bi-directional traffic
- LC/UPC connector, SC/UPC available for main fiber port

Part Number Options

Part Number	Channel wavelengths (nm)	Temperature *)
CWDM-18-1270-1610	1270 ~ 1610	0°C to +40°C
CWDM-18-1270-1610-SC	1270 ~ 1610	0°C to +40°C

*) Rated temperature for the complete miniHUB.

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	0		+70	°C
Relative Humidity (non-condensing)	5		90	%

Optical Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Number of Channels	18 + Common			
Operating Center Wavelength	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610			nm
Channel Spacing	20			nm
Insertion Loss (including connectors)		2	2.7	dB
Channel Ripple			0.5	dB
Isolation, Adjacent Channel	30			dB
Isolation, Non-Adjacent Channel	40			dB
Directivity	50			dB
Polarization Dependant Loss			0.2	dB
Polarization Mode Dispersion			0.1	ps
Return Loss	45			dB
Connector	LC/UPC, SC/UPC available for main fiber port			
Transmitting circuit fiber	Single Mode (9/125µm) of type SMF-28e			

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