

DWDM-40-x-CH20-CH59

40 Channel DWDM Filter/Mux for Video and Data applications

Data Sheet



Description

The DWDM-40-x-CH20-CH59 is a passive DWDM MUX / DMUX filter mounted in a 1RU frame for use with the miniHUB system.

Each DWDM filter has 41 ports, 40 ports for accepting the DWDM wavelengths and a common port that combines the 40 channels for feeding to and from your fiber network.

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

These filters should be used in pairs of one MUX and one DMUX. DWDM-40-A-CH20-CH59 is the multiplexer and DWDM-40-B-CH20-CH59 is the demultiplexer.

Features

- Up to 40 channels per fiber
- Compliant to SMPTE 297-2006
- Compliant to ITU-T G.694.1
- High isolation allowing bi-directional traffic
- LC/UPC connector

Part Number Options

Part Number	Channel	Temperature *)
DWDM-40-A-CH20-CH59	CH20 ~ CH59	0°C to +40°C
DWDM-40-B-CH20-CH59	CH20 ~ CH59	

*) 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	40 + Common			
Operating Center Wavelength	1520 to 1568 (CH20-CH59)			nm
Channel Spacing	100			GHz
Insertion Loss (including connectors)			6	dB
Channel Ripple			0.5	dB
Isolation, Adjacent Channel	30			dB
Isolation, Non-Adjacent Channel	45			dB
Directivity	50			dB
Polarization Dependant Loss			0.25	dB
Polarization Mode Dispersion			0.15	ps
Return Loss	45			dB
Connector	LC/UPC			
Transmitting circuit fiber	Single Mode (9/125µm) of type SMF-28e			

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