

MDC-CWDM-MON

CWDM Mux

Description

4 Channels Double Fiber Passive CWDM 2-sided MDC is member of CXR xWDM Series product line.

Main advantage of xWDM is its passive nature – no power supply or cooling necessary, robustness – no special micro-climate requirements and as passive element, it has MTBF 100+ Years. xWDM is – it is fully data rate or line protocol neutral – it is possible to use with colored transceivers supporting such applications as 1G/10G Ethernet, SDH/SONET and 8/4/2/1G Fiber Channel. It's simple to install, requires no configuration or maintenance.

MDC-XX-MON is passive Optical Multiplexer package based on Thin-Film Filter (TFF) technology, allowing extract and add 4 data stream from ITU-T G.694.2 compatible Coarse Wavelength Division Multiplex (CWDM) link. MDC is manufactured as LGX module, installed in 19" 1U sub rack fitting any standard equipment rack.



Features

- Multiplexing of 4 CWDM Channel on fiber pair
- Low insertion loss
- LGX format for 1U 19" low profile modular design
- LC/UPC connectors for channel and Trunk
- Compliant to ITU G.694.1, 100GHz ITU grid, 0.8 nm spacing
- High quality thin film filter technology
- Passive, no electricity needed (MTBF ca. 100 years)
- 1% TAP available in TX and RX mode, for channel level monitoring

Specifications

Product Type:	CWDM Two Side OADM
Number of Data Streams:	1
Number of Optical Channels:	4 CWDM Channels According ITU-T G.694.2
CWDM Channels:	1471 nm, 1491 nm, 1511 nm, 1531 nm
Filter Technology:	TFF (Thin Film Filter)
Passband:	± 6.5 nm (λ center)
Channel Spacing:	20 nm
Insertation Loss (passband):	1.4 dB
Insertation Loss (Monitor 1%):	23.8 dB
Isolation Adjacent Channels:	30 dB
Isolation Non-Adjacent Channels:	40 dB
Channel Pass-band Ripple:	0.3 dB
Polarization Dependent Loss (PDL):	Max: 0.15 dB
Polarization Mode Dispersion (PMD):	Max: 0.20 ps/nm
Directivity:	Min: 50 dB
Return Loss:	Min: 45 dB
Connectors:	LC Adapters for use with TIA/EIA 604-10 compliant LC UPC Connectors
Operating Temperature:	-5~+70 (°C)
Storage Temperature:	-40~+85 (°C)
Relative Humidity:	0 - 90%
Compliance:	CE, ISO, ITU-T G.694.2, RoHS, Telecordia GR-20



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