



CW Series Coarse Wavelength Division Multiplexers

*MaJoR Fiber Optics
Thin Film
Course Wavelength
Division Multiplexers
(CWDM's) are an
economical WDM
alternative for the ever
increasing bandwidth
in today's telecom
market. Manufactured
to provide channels in
the C band as well as
the low L band
spectrum.*

Applications

- LAN, WAN & Metro Networks
- Telecommunication Networks
- Passive Optical Networks
- FTTX
- CATV

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- Optical performance 100% factory tested
- SPC, UPC, and APC polish types available for connectorized products
- Low Insertion Loss, Back Reflection and PDL
- Telcordia GR-CORE 1221 certified
- Available in Mux and Demux configurations
- High temperature performance
- Standard operating wavelengths or customized to suit different requirements
- Center Wavelength Accuracy $\leq \pm 0.10\text{nm}$
- Channel Spacing 20nm
- Passband @ 0.50dB ITU $\pm 6.5\text{nm}$
- Passband at 0.5dB 0.50nm
- Insertion Loss—4 channel $\leq 1.9\text{dB mux}$ $\leq 1.9\text{dB demux}$
- Insertion Loss—8 channel $\leq 2.5\text{dB mux}$ $\leq 2.8\text{dB demux}$
- Insertion Loss—16 channel $\leq 5.2\text{dB mux}$ $\leq 5.2\text{dB demux}$
- Adjacent Channel Isolation—Demux $\geq 30\text{dB}$
- Non Adjacent Channel Isol.—Demux $\geq 40\text{dB}$
- Uniformity $\leq 1.5\text{dB}$
- Directivity $\geq 50\text{dB}$
- Optical Input Return Loss $\geq 45\text{dB—SPC}$
 $\geq 55\text{dB—UPC}$
 $\geq 65\text{dB—APC}$
- Polarization Dependant Loss $\leq 0.20\text{dB}$
- Polarization Mode Dispersion $\leq 0.10\text{ps}$
- Thermal Stability $\leq 0.005\text{ dB/}^\circ\text{C}$
- Thermal Stability Drift $\leq 0.005\text{ nm/}^\circ\text{C}$
- Optical Power $\geq 300\text{mW}$
- Tensile Load $\geq 5\text{N}$
- Storage Temperature $-40\text{ to }+85^\circ\text{C}$
- Operating Temperature $0\text{ to }+65^\circ\text{C}$
- Standard Package Size 80x100x8—4 Channel
120x100x8—8 Channel
140x120x8—16 Channel

*Contact MaJoR Fiber Optics, Inc. for custom configurations, higher channel count or different packaging