



DW Series Dense Wavelength Division Multiplexers

*MaJoR Fiber Optics
Thin Film
Dense Wavelength
Division Multiplexers
(DWDM's) enable to
user to split channels
over the ITU standard
(1.5um range) in
multiple channel
outputs—4, 8 and 16
channels at 200GHz.
The DWDM's can be
utilized as a
stand-alone unit or as a
pair—mux and demux*

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, Demux
- High temperature performance
- Operating Windows at ITU Standard
- Center Wavelength Accuracy $\leq \pm 0.10\text{nm}$
- Channel Spacing 1.6nm
- Channel Spacing 200GHz
- Passband at 0.5dB 0.50nm
- Insertion Loss—4 channel $\leq 3.0\text{dB}$
- Insertion Loss—8 channel $\leq 5.0\text{dB}$
- Insertion Loss—16 channel $\leq 6.0\text{dB}$
- Adjacent Channel Isolation—Mux $\geq 15\text{dB}$
- 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 $\leq 0.15\text{dB}$
- Polarization Mode Dispersion $\leq 0.10\text{ps}$
- Thermal Stability Drift $\leq 0.003 \text{ nm}/^\circ\text{C}$
- 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 or packaging