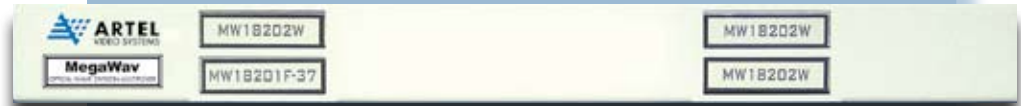


MegaWav Optical Multiplexer

MEGAWAV



Single Rack Unit Optical Multiplexers

Optically Combine or Split

- 1310nm
- 1550nm
- DWDM (channels 21-60 per ITU G.694.1)

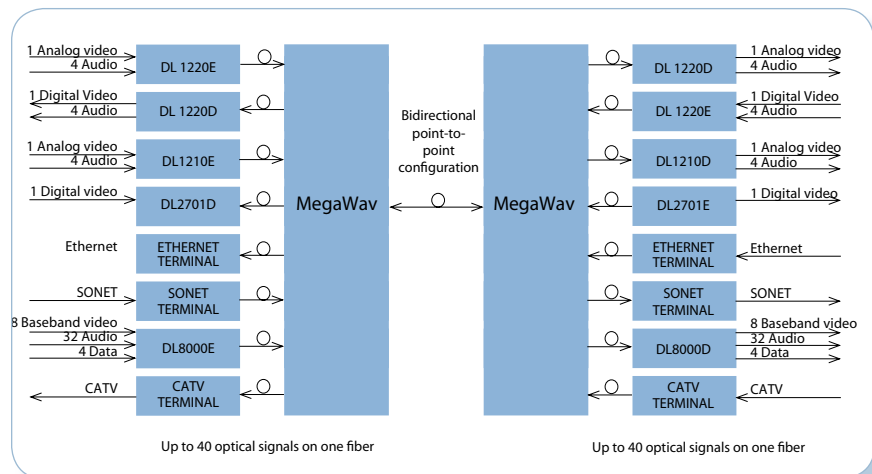
ITU G.694.1 Standard Optical Filter for use with:

- DL4000
Up to 160 video services over a single fiber
- DV6000
Hundreds of video services over a single fiber
- DigiLink
- Other ITU G.694.1 Lasers and Optical Multiplexers

Features

- Support 40 DWDM wavelengths plus 1310nm and 1550nm
- Bi-directional
- Add/drop/pass filtering
- Compact 1 RU
- Choice of 2, 4, 8, 20 or 40 channels
- Passive design for reliability
- Low optical losses
- Industry Standard FC/UPC Connectors

Artel's MegaWav, a DWDM optical multiplexer, enables transportation of up to 40 different wavelengths over a single strand of fiber. This innovative means of multiplexing, combined with Artel's DigiLink transmission products allows service providers to optimize their networks for high-bandwidth applications.



Optical Specifications

| | 4-Channel | 8-Channel | 20-Channel | 40-Channel | 1-Channel | |
|----------------------------------|---------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------|
| Channel Spacing | 100GHz Per ITU-R G.692 | 100GHz Per ITU-R G.692 | 100GHz Per ITU-R G.692 | 100GHz Per ITU-R G.692 | 100GHz Per ITU-R G.692 | |
| Insertion Loss (± 0.11 nm) | ≤2.4 dB | ≤3.5 dB | ≤4.6 dB | ≤6.1 dB | ≤1.4 dB | |
| Passband Flatness (± 0.11 nm) | ≤0.5 dB | ≤0.5 dB | ≤0.5 dB | ≤0.5 dB | ≤0.5 dB | |
| Isolation (± 0.11 nm) | ≥25 dB | ≥25 dB | ≥25 dB | ≥25 dB | ≥25 dB | |
| Directivity | ≥40 dB | ≥40 dB | ≥40 dB | ≥40 dB | ≥40 dB | |
| Return Loss | ≥40 dB | ≥40 dB | ≥40 dB | ≥40 dB | ≥40 dB | |
| Uniformity | ≤1.0 dB | ≤1.0 dB | ≤1.0 dB | ≤1.0 dB | n/a | |
| Upgrade/ Thruport | Insertion Loss (non drop channels) | ≤1.7 dB | ≤2.9 dB | ≤4 dB | n/a | ≤0.6 dB |

MegaWav DWDM Multiplexer Specifications

Environmental

| | |
|-----------------------------|----------------------------|
| Operating Temperature | 0° to +60°C |
| Relative Humidity | 10 to 95% (non-condensing) |
| Ambient Storage Temperature | -40 to 85°C |

Physical

| | |
|------------------------------|------------------------|
| Chassis Dimensions (H, W, D) | 1.75" x 19.0" x 10.50" |
| Chassis Weight | 7 lbs |
| Rack Mount Requirement | One 19" Rack Unit |

Ordering Information:

Chassis for Modules

| Module | Part Number | Description |
|----------|---------------|----------------|
| MW18204H | 390-000750-00 | 4-slot chassis |

Optical Modules (Use with MW18204H Chassis)

| Module | Part Number | Description (DWDM, FC/UPC) |
|-------------|---------------|--|
| MW18202C | 390-000753-00 | 2-Way Combiner/Splitter Module (uni-directional) |
| MW18204C | 390-000753-01 | 4-channel Optical Combiner/Splitter Module (uni-directional) |
| MW18208C | 390-000753-02 | 8-channel Optical Combiner/Splitter Module (uni-directional) |
| MW18201W | 390-000754-01 | 1310/1550nm WDM Module |
| MW18202W | 390-000754-02 | Dual 1310/1550nm WDM Module |
| MW18201F-XX | 390-000755-XX | Single Channel Filter (available in wavelengths, 21-60); XX indicates channel number |
| MW70421D | 390-000762-21 | 4-channel, 21-24, with expansion port |
| MW70425D | 390-000762-25 | 4-channel, 25-28, with expansion port |
| MW70429D | 390-000762-29 | 4-channel, 29-32, with expansion port |
| MW70433D | 390-000762-33 | 4-channel, 33-36, with expansion port |
| MW70437D | 390-000762-37 | 4-channel, 37-40, with expansion port |
| MW70441D | 390-000762-41 | 4-channel, 41-44, with expansion port |
| MW70445D | 390-000762-45 | 4-channel, 45-48, with expansion port |
| MW70449D | 390-000762-49 | 4-channel 49-52, with expansion port |
| MW70453D | 390-000762-53 | 4-channel 53-56, with expansion port |
| MW70457D | 390-000762-57 | 4-channel 57-60, with expansion port |
| MW70821D | 390-000763-21 | 8-channel, 21-28, with expansion port |
| MW70829D | 390-000763-29 | 8-channel, 29-36, with expansion port |
| MW70837D | 390-000763-37 | 8-channel, 37-44, with expansion port |
| MW70845D | 390-000763-45 | 8-channel, 45-52, with expansion port |
| MW70853D | 390-000763-53 | 8-channel, 53-60, with expansion port |

Integrated Chassis and Optical Modules

| Module | Part Number | Description |
|----------|---------------|--|
| MW72021D | 390-000766-21 | 20-channel shelf, 21-40, with expansion port |
| MW72041D | 390-000766-41 | 20-channel shelf, 41-60, with expansion port |
| MW74021D | 390-000767-21 | 40-channel shelf |

Note: Specifications are subject to change without notice.



| DWDM Channel | MODULE | | | |
|--------------|-----------|-----------|------------|------------|
| | 4 channel | 8 channel | 20 channel | 40 channel |
| 21 | MW70421D | MW70821D | MW72021D | MW74021D |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | MW70425D | MW70821D | MW72021D | MW74021D |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | MW70429D | MW70829D | MW72021D | MW74021D |
| 30 | | | | |
| 31 | | | | |
| 32 | | | | |
| 33 | MW70433D | MW70829D | MW72021D | MW74021D |
| 34 | | | | |
| 35 | | | | |
| 36 | | | | |
| 37 | MW70437D | MW70837D | MW72021D | MW74021D |
| 38 | | | | |
| 39 | | | | |
| 40 | | | | |
| 41 | MW70441D | MW70837D | MW72021D | MW74021D |
| 42 | | | | |
| 43 | | | | |
| 44 | | | | |
| 45 | MW70445D | MW70845D | MW72041D | MW74021D |
| 46 | | | | |
| 47 | | | | |
| 48 | | | | |
| 49 | MW70449D | MW70845D | MW72041D | MW74021D |
| 50 | | | | |
| 51 | | | | |
| 52 | | | | |
| 53 | MW70453D | MW70853D | MW72041D | MW74021D |
| 54 | | | | |
| 55 | | | | |
| 56 | | | | |
| 57 | MW70457D | MW70853D | MW72041D | MW74021D |
| 58 | | | | |
| 59 | | | | |
| 60 | | | | |