

Compact Dense Wavelength Division Multiplexers (CDWDM) allow customers to expand the bandwidth capacity of their next-generation networks. Based on thin film filter technology, the device is less than one-third the size of traditional cascaded DWDMs of similar channel count. Our CDWDMs feature low insertion and polarization dependent loss with excellent temperature stability. Available in a variety of ITU channel configurations (20-, 16-, 8-, 4-) with a 100 GHz channel spacing, the devices are ideal for those applications requiring small size and high optical performance.



## ➔ Specifications

| Parameter                      |          | Specification                                  |
|--------------------------------|----------|--|
| Channels                       |          | 20, 16, 8, 4                                   |
| ITU Channel                    |          | ITU Grid                                       |
| Channel Spacing                |          | 100 GHz  |
| Channel Pass Band              |          | $\geq \lambda c \pm 0.11 \text{ nm}$           |
| Channel Insertion Loss         | 4 Ch.    | $\leq 1.5 \text{ dB}$                          |
|                                | 8 Ch.    | $\leq 2.0 \text{ dB}$                          |
|                                | 16 Ch.   | $\leq 3.0 \text{ dB}$                          |
|                                | 20 Ch.   | $\leq 3.8 \text{ dB}$                          |
| Adjacent Channel Isolation     |          | $\geq 30 \text{ dB}$                           |
| Non-Adjacent Channel Isolation |          | $\geq 40 \text{ dB}$                           |
| Return Loss                    |          | $\geq 45 \text{ dB}$                           |
| PDL                            |          | $\leq 0.3 \text{ dB}$                          |
| Maximum Power                  |          | 300 mW   |
| Operating Temperature          | Standard | $0^\circ \text{ C} \sim +70^\circ \text{ C}$   |
|                                | Extended | $-40^\circ \text{ C} \sim +85^\circ \text{ C}$ |
| Storage Temperature            |          | $-40^\circ \text{ C} \sim +85^\circ \text{ C}$ |
| Pigtail Length                 |          | 1.0 m, 1.5 m                                   |

Note1: All values specified are without connectors.

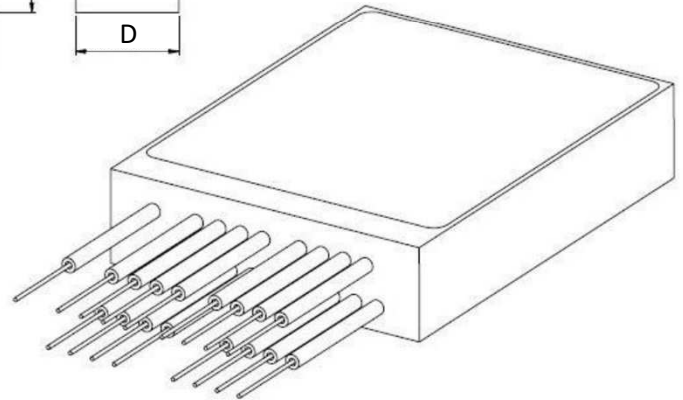
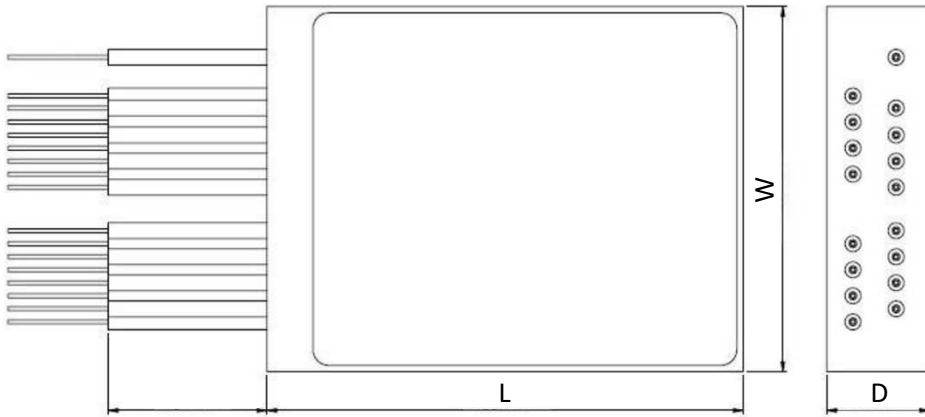
Note2: Higher performance specifications available upon request.

Note3: Fiber type – Corning SMF-28 Ultra.

Note4: Channel count is from low to high for mux and high to low for demux if mux and demux are packaged in one cassette.

Note5: Over operating temperature, all SOP.

## ➔ Mechanical



### Dimensions

|            |                                 |
|------------|---------------------------------|
| 4 channel  | L: 25, W: 10.8, D: 6.5 mm       |
| 8 channel  | L: 25.8, W: 14.4, D: 6.5 mm     |
| 16 channel | L: 30, W: 23, D: 6.5 mm (shown) |
| 20 channel | L: 50, W: 40, D: 6.5 mm         |

## ➔ Ordering Information

| <u>C</u> <u>D</u> <u>W</u> <u>M</u> | <u>1</u>                             |  |                                    |   |   |   |                  |            |  |
|-------------------------------------|--------------------------------------|--|------------------------------------|---|---|---|------------------|------------|--|
| <i>Compact DWDM</i>                 | <b>Channel Spacing</b><br>1: 100 GHz | <b># of Channels</b><br>20: 20 Ch<br>16: 16 Ch<br>08: 8 Ch<br>04: 4 Ch | <b>First ITU Ch #</b><br>(e.g. 30) | <b>Operating Temp</b><br>S: Standard<br>E: Extended | <b>Fiber Length</b><br>A: 1 meter<br>B: 1.5 meter | <b>Pigtail Style</b><br>(=Package style)<br>B: bare fiber<br>L: 900 μm loose tube | <b>Connector</b> |            |  |
|                                     |                                      |  |                                    |   |   |   | 0: None          | 7: LC/UPC  |  |
|                                     |                                      |  |                                    |   |   |   | 1: FC/PC         | 8: LC/SPC  |  |
|                                     |                                      |  |                                    |   |   |   | 2: FC/APC        | 9: Special |  |
|                                     |                                      |  |                                    |   |   |   | 3: SC/PC         | A: FC/UPC  |  |
|                                     |                                      |  |                                    |   |   |   | 4: SC/APC        | B: SC/UPC  |  |
|                                     |                                      |  |                                    |   |   |   | 5: FC/SPC        | C: ST      |  |
|                                     |                                      |  |                                    |   |   |   | 6: SC/SPC        |            |  |