

## 0401 DWDM 50 G

 W1319-S

### 1X2 DWDM Channel 19, 50 G, 1562.23 nm

The DWDM is designed for long-haul transmission where wavelengths are packed tightly together. The 50 GHz spacing DWDM filters allow system designers optimal configuration flexibility. They feature low insertion loss, high channel isolation, and excellent environmental stability and reliability. They can be used for channel add/drop, DWDM network, wavelength routing and fiber optic filter.

#### FEATURES

- 0.4 nm Channel Spacing
- High Channel Isolation
- High Stability and Reliability
- Low Insertion Loss

#### USE IN

- Narrow Bandwidth Filter
- Channel Add/Drop
- Wavelength Routing
- Fiber Optic Amplifier
- DWDM Network

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| Data (dB)   | Comm.→Pass<br>(IL/PDL for PBs,<br>Isolation for IBs) |           |      |                 | Comm.→Reflec.<br>(IL for IBs,<br>Isolation for PBs) |       |       | Directivity<br>(Room Temp.) |                  | Return Loss<br>(Room Temp.) |                |                    |
|---|--|-----------|------|-----------------|---|-------|-------|-----------------------------|------------------|-----------------------------|----------------|--------------------|
|   | WL (nm)  | -5°C      | Room | 50°C<br>for PBI | 70°C for<br>PBI                                     | -5°C  | Room  | 70°C<br>for PBI             | Pass→<br>Reflec. | Reflec.<br>→Pass            | Common<br>Port | Reflection<br>Port |
| ITU-(IBB)/2 1560.86   | 35.69  | 35.44     | NA   | 35.93           | 0.23  | 0.23  | 0.21  | /                           | 72.38            | 61.57                       | 62.38          | /                  |
| ITU-(IBA)/2 1561.65   | 12.01  | 12.21     | NA   | 13.16           | 0.46  | 0.44  | 0.39  | /                           | /                | /                           | /              | /                  |
| ITU-(PB2)/2   | NA   | NA        | NA   | NA              | NA  | NA    | NA    | /                           | /                | /                           | /              | /                  |
| ITU-(PB1)/2<br>50°C/70°C 1562.03  | 0.3/0.04   | 0.35/0.05 | NA   | 0.51/0.07       | 24.39   | 24.44 | 18.88 | /                           | /                | /                           | /              | /                  |
| ITU 1562.23   | 0.27/0.03  | 0.31/0.04 | NA   | 0.4/0.04        | 36.08   | 31.71 | 34.11 | 65.45                       | /                | 62.85                       | /              | 62.64              |
| ITU+(PB1)/2<br>50°C/70°C 1562.43  | 0.33/0.04  | 0.39/0.05 | NA   | 0.49/0.05       | 23.73   | 21.57 | 17.82 | /                           | /                | /                           | /              | /                  |
| ITU+(PB2)/2   | NA   | NA        | NA   | NA              | NA  | NA    | NA    | /                           | /                | /                           | /              | /                  |
| ITU+(IBA)/2 1562.81   | 11.09  | 10.92     | NA   | 9.63            | 0.59  | 0.62  | 0.77  | /                           | /                | /                           | /              | /                  |
| ITU+(IBB)/2 1563.6  | 35.17  | 35.05     | NA   | 34.46           | 0.22  | 0.22  | 0.21  | /                           | 72.2             | 62.36                       | 62.94          | /                  |
| Ripple in PB1   | 0.09   | 0.11      | NA   | 0.16            | /   | /     | /     | /                           | /                | /                           | /              | /                  |
| Max. IL   | 0.33   | 0.39      | NA   | 0.51            | 0.23  | 0.23  | 0.21  | /                           | /                | /                           | /              | /                  |
| Min. Iso.   | 11.09  | 10.92     | NA   | 9.63            | 19.97   | 18.08 | 17.57 | /                           | /                | /                           | /              | /                  |
| ITU: 1562.23 PB1(50°C): NA PB1(70°C): 0.4 PB2: NA IBA: 1.16 IBB: 2.74 (All in nm)   |  |           |      |                 |   |       |       |                             |                  |                             |                |                    |
| IL in PB1: 0.90 RIL: 0.40 TI from IBA: 7 RL: 50 Directivity: 50 IL in PB2: NA Ripple: 0.45 TI from IBB: 30 RI: 12 (All in dB) |  |           |      |                 |   |       |       |                             |                  |                             |                |                    |
| Temp. Cycle: -40 °C to 85 °C  |  |           |      |                 |   |       |       |                             |                  |                             |                |                    |