

**PASSIVES DATA SHEET**


# 80 Channel/40 Service Single Fiber DWDM Mux/Demux ITU ch. 20-59.5

Champion ONE's DWDM passive networking products for inside-plant applications provide a cost-effective, high-reliability solution to fiber capacity challenges.

## Technical Specifications

**WAVELENGTH INFORMATION**

DWDM channel wavelengths: ITU Ch.20–59.5, 50GHz spacing  
Tap operating wavelength: 1260–1620nm  
Passband width: ITU ± 6.25GHz

**FORM FACTOR AND CONNECTOR TYPES**

1RU enclosure  
LC/UPC connector (all ports)

**DIMENSIONS (LXWXH)**

Body: 250 x 440 x 44 mm  
Faceplate: 482.6 x 44mm

**TEMPERATURE RANGE**

-5° C to 65° C (operating)  
-40° C to 85° C (storage)

**WARRANTY**

All feature a limited 5-year warranty

**COMPLIANCES**

RoHS compliant  
Telcordia GR-1209, GR-1221

| Parameter   | Value         |
|---|---------------|
| DWDM Channel Insertion Loss (dB)                          | ≤ 8.5         |
| 2% MON Port Insertion Loss (mux/demux, dB)                | ≤ 27.5 / 19.0 |
| Wavelength Stability (nm)                                 | ± 0.05        |
| Crosstalk (dB)  | ≥ 20          |
| Adjacent Channel Isolation between DWDM Channels (dB)     | ≥ 25          |
| Non-Adjacent Channel Isolation Between DWDM Channels (dB) | ≥ 30          |

| Parameter                         | Value              |
|-----------------------------------|--------------------|
| Polarization Dependent Loss (dB)  | ≤ 0.5              |
| Directivity (dB)                  | ≥ 40               |
| Return Loss (dB)                  | ≥ 40               |
| Polarization Mode Dispersion (ps) | ≤ 1.0              |
| Fiber Type                        | SMF-28e+<br>900 μm |
| Max Power Handling (mW)           | 500                |

## Ordering Information

| C1 Part Number                  | Description  |
|---------------------------------|--|
| ZS-DWDM-SFB-050-80-L-N-0-20-R-W | DWDM SF M/D 50GHz 80Ch/40Svc LC, No Skips, Ch 20 start, Monitor, 19in Rack mount, West |
| ZS-DWDM-SFB-050-80-L-N-0-20-R-E | DWDM SF M/D 50GHz 80Ch/40Svc LC, No Skips, Ch 20 start, Monitor, 19in Rack mount, East |

Network Diagram

