

PASSIVES DATA SHEET


5-Band DWDM Band Pass Splitter

ITU ch. 16-23, 25-32, 34-41, 43-50, 52-59

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

Technical Specifications

WAVELENGTH INFORMATION

DWDM channel wavelengths: ITU ch. 16–23, 25–32, 34–41, 43–50, and 52–59; 100GHz spacing
Passband width: ITU \pm 0.11nm

FORM FACTOR AND CONNECTOR TYPES

Single-wide LGX
LC/UPC connector (all ports)

DIMENSIONS (LXWXH)

Body: 100 x 100 x 28.5 mm
Faceplate: 130 x 28.5mm

TEMPERATURE RANGE

-40° C to 85° C (storage and operating)

WARRANTY

All feature a limited 5-year warranty

COMPLIANCES

RoHS compliant
Telcordia GR-1209, GR-1221

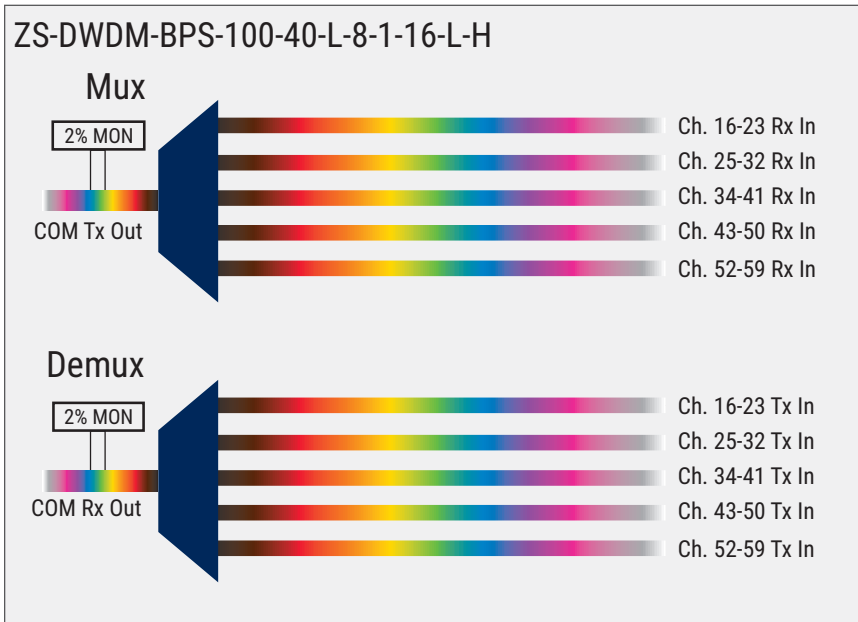
| Parameter | Value |
|---|--------------------|
| DWDM Channel Insertion Loss (dB) | \leq 2.5 |
| MON Port Insertion Loss (mux/demux, dB) | \leq 21.5 / 19.0 |
| Passband Ripple (dB) | \leq 0.5 |
| Adjacent Channel Isolation between DWDM Channels (dB) | \geq 30 |
| Non-Adjacent Channel Isolation Between DWDM Channels (dB) | \geq 40 |

| Parameter | Value |
|-----------------------------------|----------------------|
| Polarization Dependent Loss (dB) | \leq 0.2 |
| Directivity (dB) | \geq 50 |
| Return Loss (dB) | \geq 45 |
| Polarization Mode Dispersion (ps) | \leq 0.2 |
| Fiber Type | SMF-28e+ 900 μ m |
| Filter Type | TFF |
| Max Power Handling (mW) | 300 |

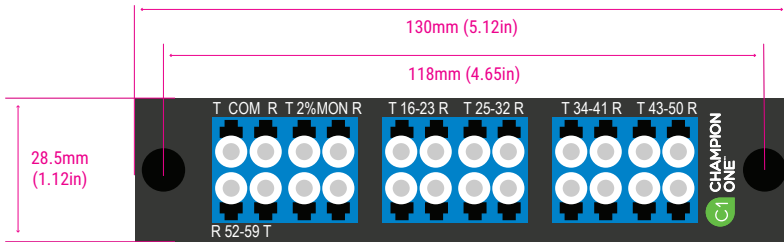
Ordering Information

| C1 Part Number | Description |
|---------------------------------|--|
| ZS-DWDM-BPS-100-40-L-8-1-16-L-H | 40CH DWDM, 100G spacing, 8 Skip 1, M/D, 5 Band, Band Pass Splitter, C16~C23, C25~C32, C34~C41, C43~C50, C52~C59, LC, LGX, I-Temp |

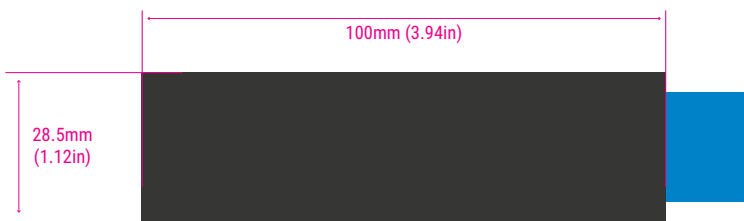
Network Diagram



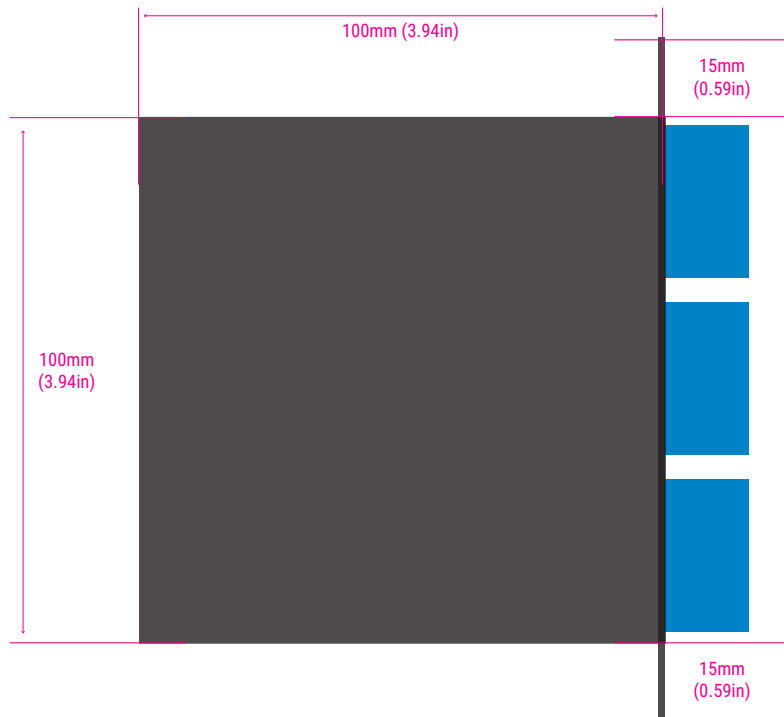
Physical Diagrams



Front View



Side View



Top View

| Channel | Typical | | Max | |
|---------|-------------|-------------|-------------|-------------|
| | Mux IL (dB) | Dmx IL (dB) | Mux IL (dB) | Dmx IL (dB) |
| 2%MON | 21.3 | 19.0 | 21.5 | 19.0 |
| C16-23 | 1.1 | 2.3 | 1.3 | 2.5 |
| C25-32 | 1.4 | 2.1 | 1.6 | 2.2 |

| Channel | Typical | | Max | |
|---------|-------------|-------------|-------------|-------------|
| | Mux IL (dB) | Dmx IL (dB) | Mux IL (dB) | Dmx IL (dB) |
| C34-41 | 1.7 | 1.7 | 1.9 | 1.9 |
| C43-50 | 2.1 | 1.4 | 2.2 | 1.6 |
| C52-59 | 2.3 | 1.1 | 2.5 | 1.3 |