

PASSIVES DATA SHEET

8 Channel Dual Fiber DWDM Mux/Demux + Express



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

Express port: 1470nm – 1620nm (excl. channel ports)
 DWDM channel wavelengths: ITU ch. 16–23, 25–32, 34–41, 43–50,
 or 52–59; 100GHz spacing
 Passband width: ITU ± 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

WARRANTY

All feature a limited 5-year warranty

COMPLIANCES

RoHS compliant
 Telcordia GR-1209, GR-1221

Parameter	Value
DWDM Channel Insertion Loss (dB)	≤ 4.4
Express Port Insertion Loss (dB)	≤ 3.9
Tap Port Insertion Loss (mux/demux, dB)	≤ 23.4 / 19.0
Passband Ripple (dB)	≤ 0.5
Adjacent Channel Isolation between DWDM Channels (dB)	≥ 30
Non-Adjacent Channel Isolation Between CWDM Channels (dB)	≥ 40

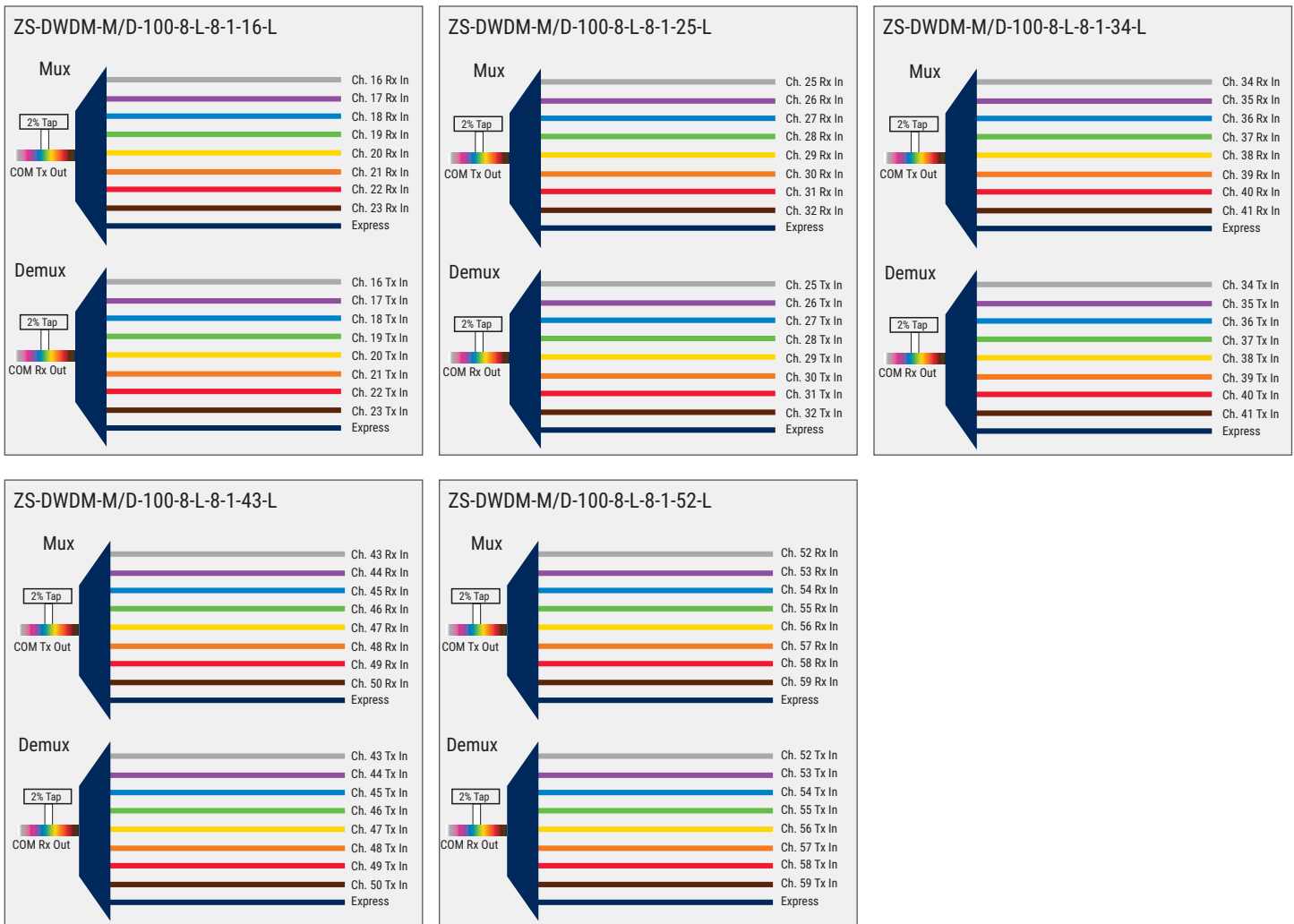
Parameter	Value
Express Port Isolation (dB)	≥ 12
Polarization Dependent Loss (dB)	≤ 0.2
Directivity (dB)	≥ 50
Return Loss (dB)	≥ 45
Polarization Mode Dispersion (ps)	≤ 0.2
Fiber Type	SMF-28e+ 900 μm
Max Power Handling (mW)	300

Ordering Information

C1 Part Number	Description
ZS-DWDM-M/D-100-8-L-8-1-16-L	8 channel DWDM Mux/Demux, Ch. 16-23, 2% MON and EXP port, LGX box, LC connector
ZS-DWDM-M/D-100-8-L-8-1-25-L	8 channel DWDM Mux/Demux, Ch. 25-32, 2% MON and EXP port, LGX box, LC connector
ZS-DWDM-M/D-100-8-L-8-1-34-L	8 channel DWDM Mux/Demux, Ch. 34-41, 2% MON and EXP port, LGX box, LC connector
ZS-DWDM-M/D-100-8-L-8-1-43-L	8 channel DWDM Mux/Demux, Ch. 43-50, 2% MON and EXP port, LGX box, LC connector
ZS-DWDM-M/D-100-8-L-8-1-52-L	8 channel DWDM Mux/Demux, Ch. 52-59, 2% MON and EXP port, LGX box, LC connector

NOTE: Check transceiver channel availability before ordering. Tunables are preferred, but not required for all products.

Network Diagram



Accessories

For convenient deployment in a standard 19" rack, Champion ONE also offers a 1RU Faceplate with 3 LGX slots (ordered separately from mux).



Parameter	Value
C1 Part Number	LGX1R-FACEPLATE
Dimensions	Fits 19" rack x 1RU (482.6mm x 44mm)