

**PASSIVES DATA SHEET**


# 44 Channel Dual Fiber DWDM Mux/Demux Ch. 16–59 [GAWG]

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.16-59, 100GHz spacing  
 MON operating wavelength: 1260–1620nm  
 Full passband width: 12.5GHz (@ 0.5dB); 49GHz (@ 3.0dB)

**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

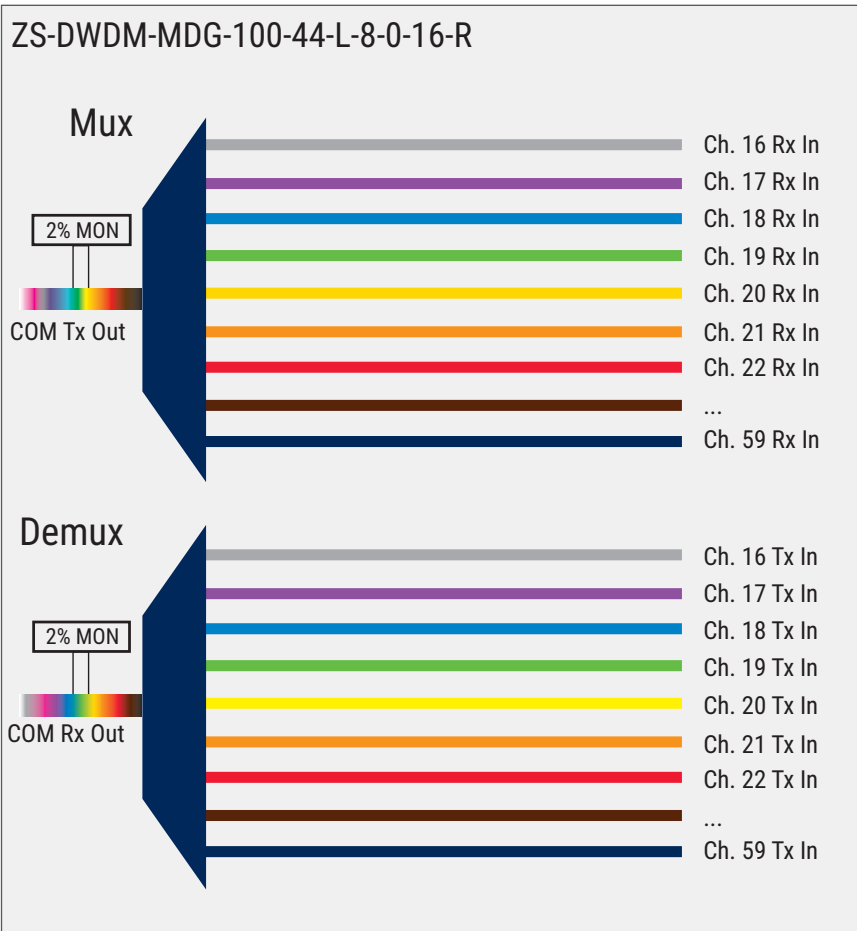
Parameter	Value
DWDM Channel Insertion Loss (dB)	4.0 (max) 3.0 (typ)
MON Port Insertion Loss (mux/demux, dB)	≤ 23.5 / 19.0
Adjacent Channel Isolation between DWDM Channels (dB)	≥ 25
Non-Adjacent Channel Isolation Between DWDM Channels (dB)	≥ 29
Total Channel Isolation (dB)	≥ 22

Parameter	Value
Polarization Dependent Loss (dB)	≤ 0.5
Directivity (dB)	≥ 40
Return Loss (dB)	≥ 40
Polarization Mode Dispersion (ps)	≤ 0.5
Fiber Type	SMF-28e+ 900 μm
Filter Type	Gaussian AWG
Max Power Handling (mW)	300

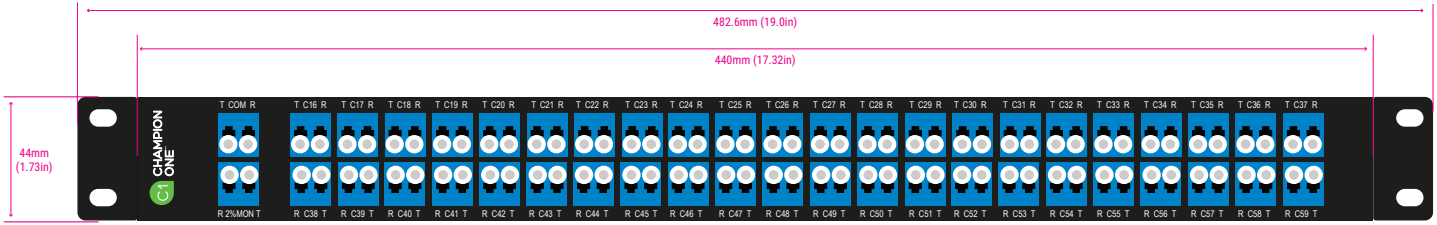
## Ordering Information

C1 Part Number	Description
ZS-DWDM-MDG-100-44-L-8-0-16-R	DWDM M/D Gaussian AWG 100GHz 44 Ch, LC, 8 skip 0, Ch 16 start, 2% Mon, 1RU

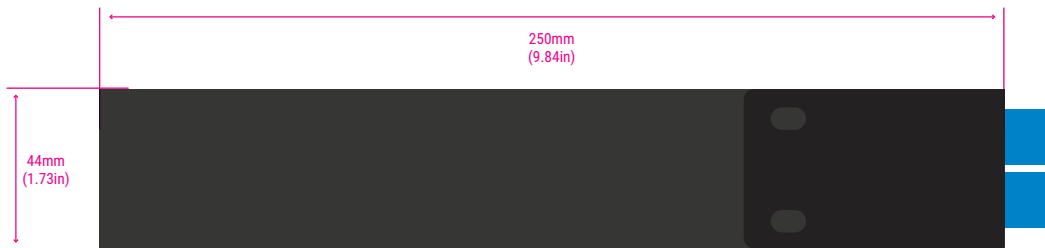
Network Diagram



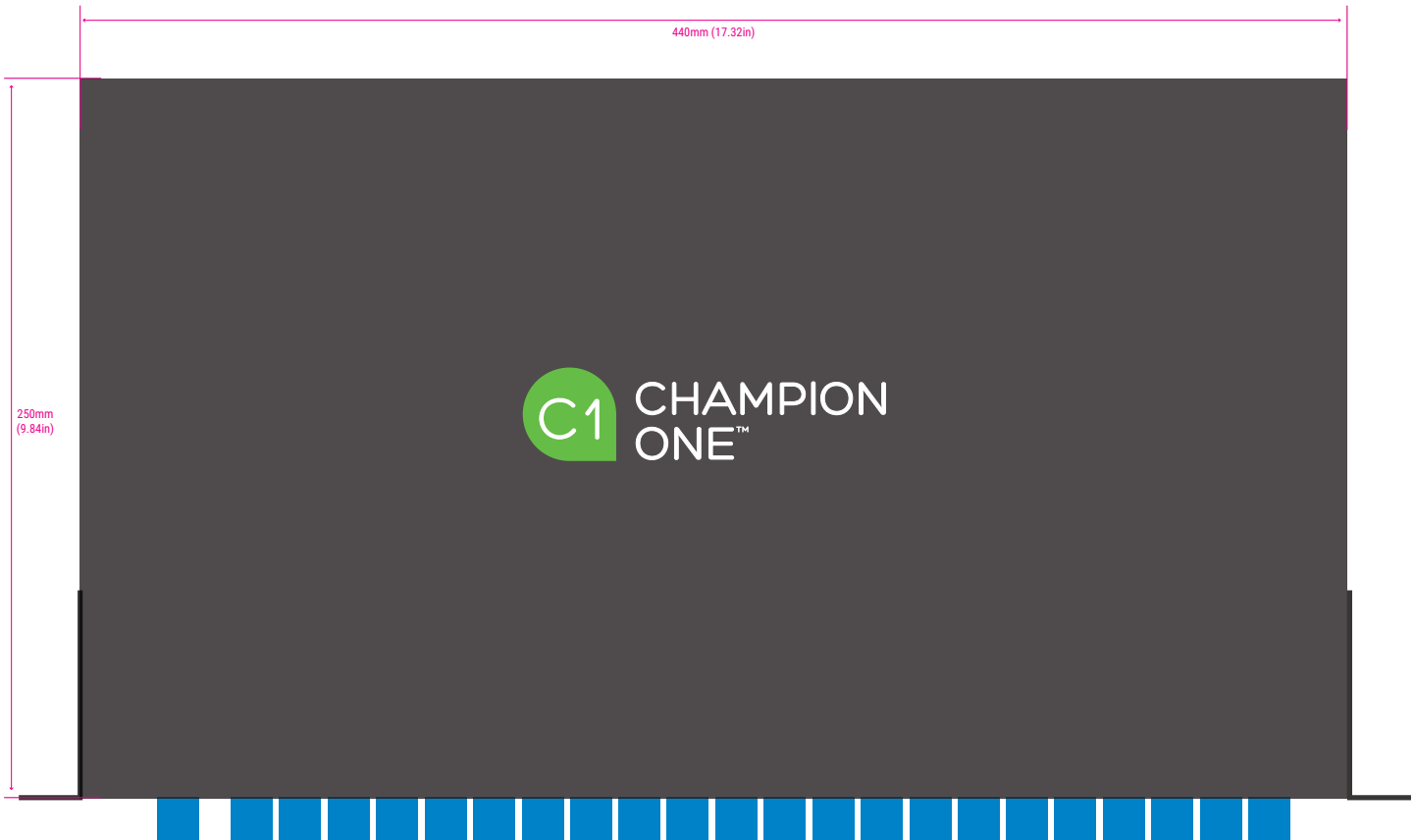
Physical Diagrams



Front View



Side View



Top View