

**PASSIVES DATA SHEET**

# 8 Channel Dual Fiber CWDM Mux/Demux



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

## Technical Specifications

**WAVELENGTH INFORMATION**

Operating wavelengths: 1460nm – 1620nm (including pass band)  
Center wavelengths: 1470nm – 1610nm  
CWDM channel spacing: 20 nm  
Passband width: ITU ± 6.5nm

**FORM FACTOR AND CONNECTOR TYPES**

Single-wide LGX  
LC/UPC connectors

**DIMENSIONS (LXWXH)**

Body: 130 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

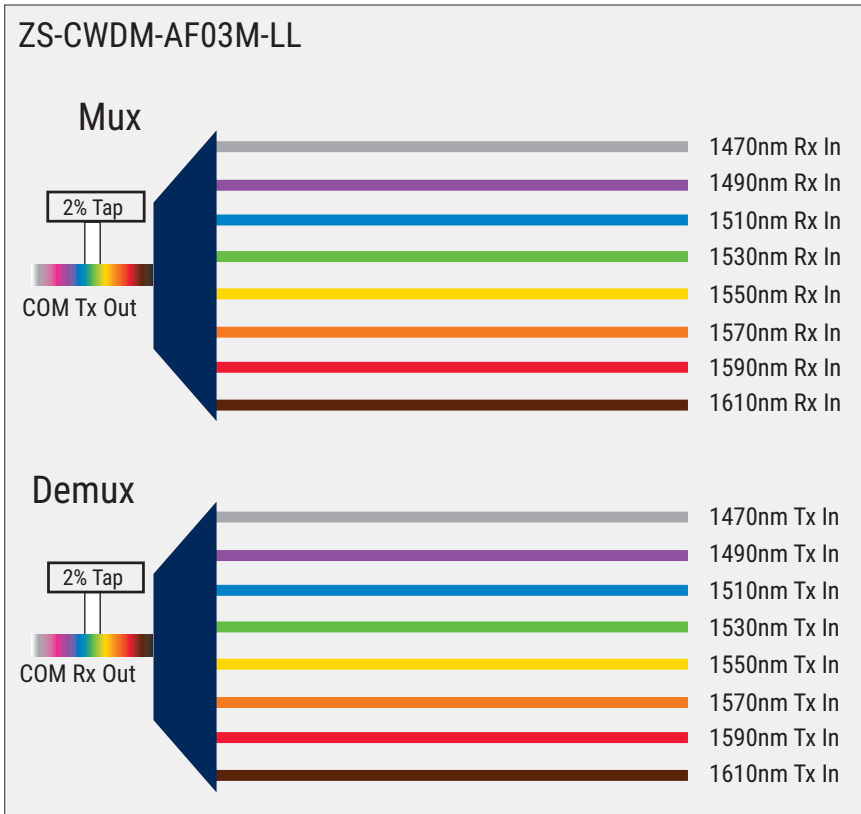
Parameter	Value
CWDM Channel Insertion Loss (dB)	≤ 3.3
Tap Port Insertion Loss (mux/demux, dB)	≤ 22.3 / 19.0
Passband Ripple (dB)	≤ 0.5
Adjacent Channel Isolation between CWDM Channels (dB)	≥ 30
Non-Adjacent Channel Isolation Between CWDM Channels (dB)	≥ 40

Parameter	Value
Polarization Dependent Loss (dB)	≤ 0.2
Directivity (dB)	≥ 50
Return Loss (dB)	≥ 45
Polarization Mode Dispersion (ps)	≤ 0.2
Fiber Type	SMF-28 9 / 125 / 250 μm
Max Power Handling (mW)	300

## Ordering Information

C1 Part Number	Description
ZS-CWDM-AF03M-LL	CWDM 8 channel, 1470-1610nm, Single wide LGX with 2% MON, LC

## 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)