

**PASSIVES DATA SHEET**

# 2 Channel / 1 Service Single Fiber DWDM Mux ITU ch. 21-22 through ITU ch. 59-60



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

## Technical Specifications

**WAVELENGTH INFORMATION**

DWDM channel wavelengths: ITU ch. 21-22, 23-24, 25-26, 27-28, 29-30, 31-32, 33-34, 35-36, 37-38, 39-40, 41-42, 43-44, 45-46, 47-48, 49-50, 51-52, 53-54, 55-56, 57-58, 59-60 (100GHz spacing)  
Passband width: ITU  $\pm$  0.11nm

**FORM FACTOR AND CONNECTOR TYPES**

OSP cassette  
LC/UPC connector (MON only)

**DIMENSIONS (LXWXH)**

Cassette: 70mm x 70mm x 8mm  
1m fiber pigtailed

**TEMPERATURE RANGE**

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

**WARRANTY**

All feature a limited 5-year warranty

**COMPLIANCES**

RoHS compliant  
Telcordia GR-1209, GR-1221

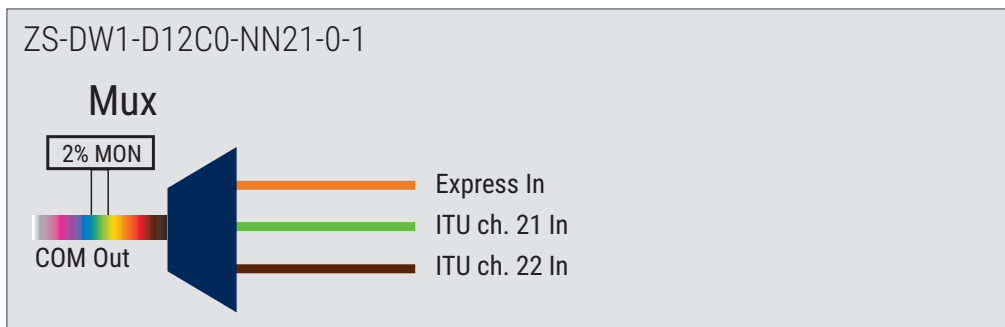
Parameter	Value
DWDM Channel Insertion Loss (dB)	$\leq$ 1.5
Express Channel Insertion Loss (dB)	$\leq$ 1.2
2% MON Port Insertion Loss (mux, dB)	$\leq$ 19.0
Passband Ripple (dB)	$\leq$ 0.5
Adjacent Channel Isolation between DWDM Channels (dB)	$\geq$ 30
Non-Adjacent Channel Isolation Between DWDM Channels (dB)	$\geq$ 40
Express Channel Isolation (dB)	$\geq$ 12

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 $\mu$ m
Max Power Handling (mW)	300

## Ordering Information

C1 Part Number	Description
ZS-DW1-D12C0-NNxx-0-1	DWDM, Single Module, Single Fiber MUX, 100G spacing, 2 channel/1 service, Express Port, no connectors except 900um LC MON, Channel xx Start, Module only, 1M fibers (xx = 21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59)

## Sample Network Diagram



## Tray Integration Options

Module in Tyco "B" Tray



Module in Tyco "D" Tray

