

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 outside plant applications provide a cost-effective, high-reliability solution to fiber capacity challenges.

Our OSP passives come in standard and patent-pending IP68-compliant submersible cassettes made of aluminum alloy.

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

OSP cassette
LC/UPC connectors (MON only)

DIMENSIONS (LXWXH)

70 x 70 x 8mm
2m fiber pigtailed

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
IP68 submersible

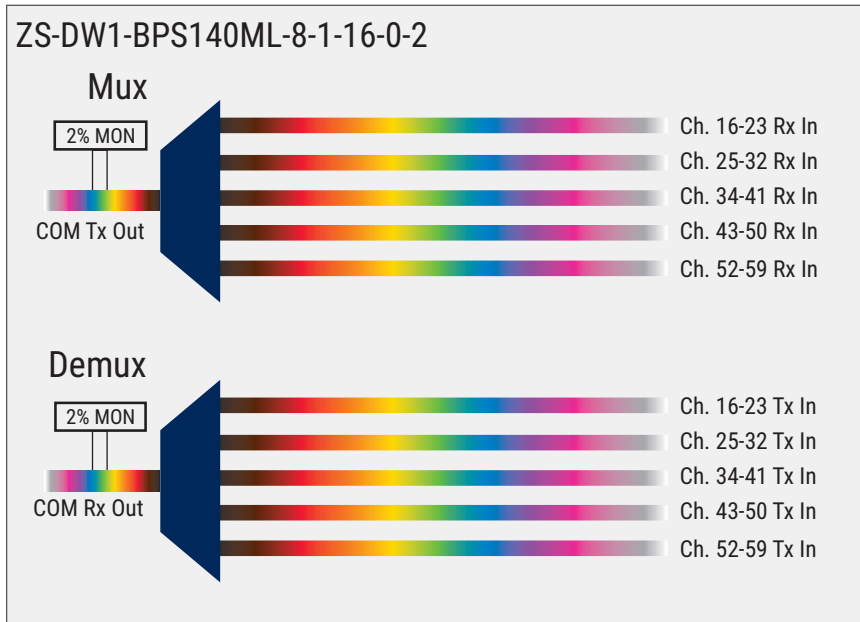
Parameter	Value
DWDM Channel Insertion Loss (dB)	\leq 2.5
MON Port Insertion Loss (mux/demux, dB)	\leq 21.5 / 19.0
Passband Ripple (dB)	\leq 0.5
Adjacent Channel Isolation between DWDM Channels (dB)	\geq 30
Non-Adjacent Channel Isolation Between DWDM Channels (dB)	\geq 40

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-28 or equivalent
Filter Type	TFF
Max Power Handling (mW)	300

Ordering Information

C1 Part Number	Description
ZS-DW1-BPS140ML-8-1-16-0-2	DWDM BPS 100GHz 40 Ch, LC/UPC 900um on Mon only, Ch 16 start, 8+1skip, MON, 2M fibers, Module only
ZS-DW1-BPS140ML-8-1-16-0-2-S	DWDM BPS 100GHz 40 Ch, LC/UPC 900um on Mon only, Ch 16 start, 8+1skip, MON, 2M fibers, Module only, Submersible

Network Diagram

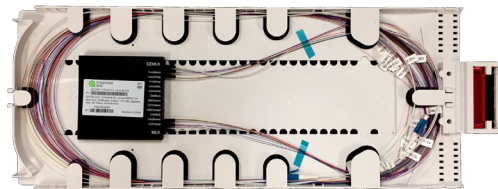


Tray Integration Options

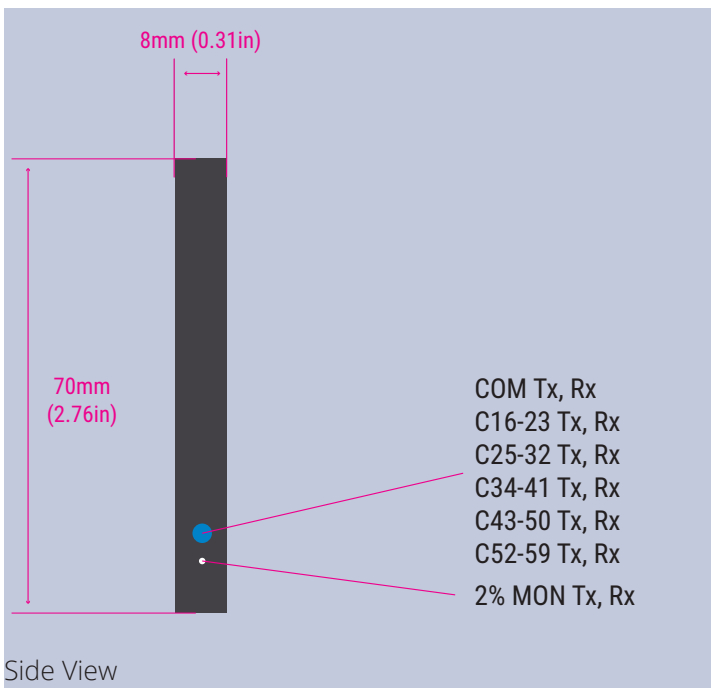
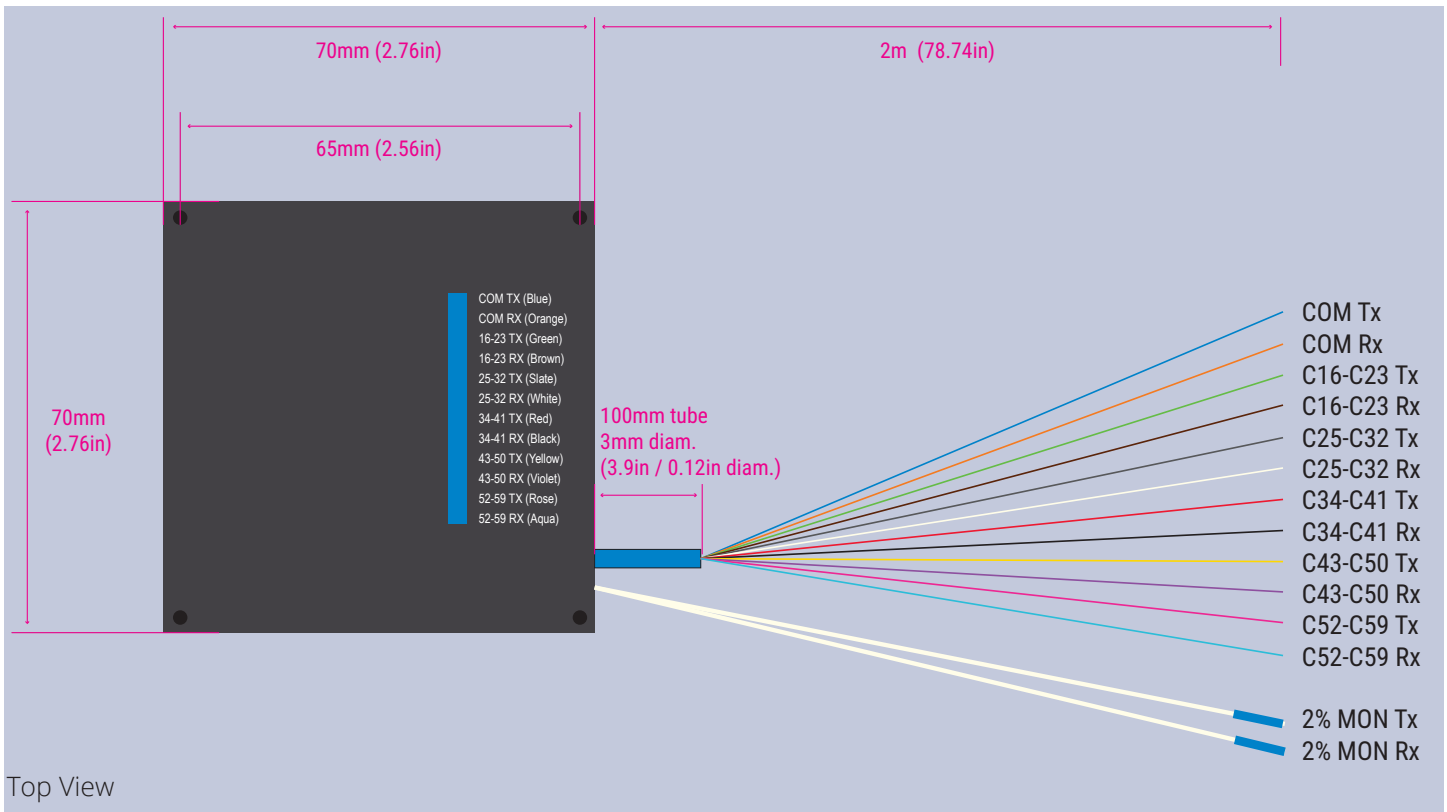
Similar Module in Tyco "B" Tray



Similar Module in Tyco "D" Tray



Physical Diagrams and Extended Loss Specifications



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
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