

Features:

- 8 Channel Dual Fiber OSP DWDM Mux/Demux
- Channel Wavelengths: DWDM
 CH. 16 - CH. 23
 CH. 25 - CH. 32
 CH. 34 - CH. 41
 CH. 43 - CH. 50
 CH. 52 - CH. 59
- Channel Spacing: 100GHz
- Maximum Optical Power: 300mW
- Connector Type: LC/UPC
- Reliability: Telcordia GR-1209, GR-1221
- Operating Temperature: -40 to 85°C



- Storage Temperature: -40 to 85°C
- Dimensions: 70mm x 70mm x 8mm
- 2m or 3m fiber pigtails



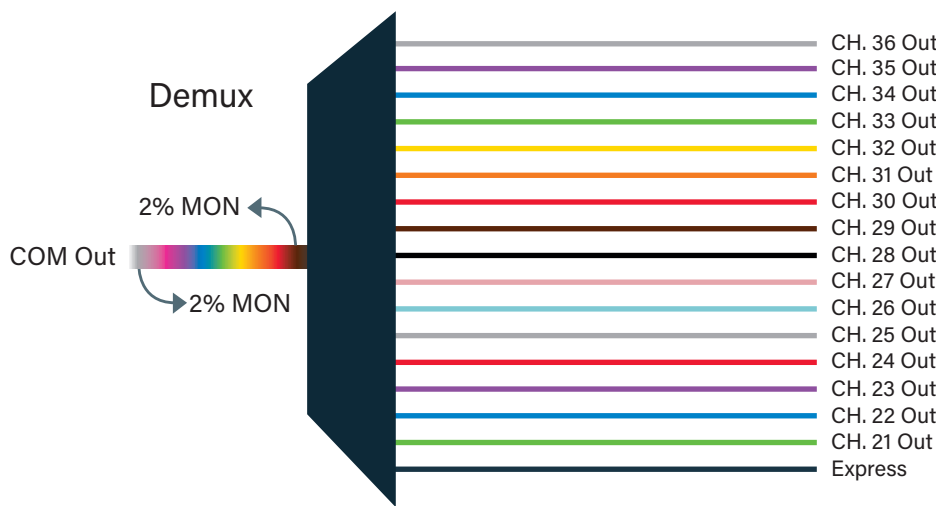
1. Optical Requirements

Parameter	Value
Passband Width	$\geq \text{ITU} \pm 0.11\text{nm}$
Passband Ripple (Max.)	$\leq 0.5\text{dB}$
Isolation, Adjacent Channel - DWDM (Min.)	$\geq 30\text{dB}$
Isolation, Non-Adjacent Channel - DWDM (Min.)	$\geq 40\text{dB}$
Isolation, EXP Port (Min.)	$\geq 12\text{dB}$
Return Loss - All Ports (Min., Including Connectors)	$\geq 45\text{dB}$
Directivity - DWDM Ports (Min.)	$\geq 50\text{dB}$
Polarization Dependent Loss (Max.)	$\leq 0.2\text{dB}$
Polarization Mode Dispersion (Max.)	$\leq 0.2\text{ps}$

2. Insertion Loss

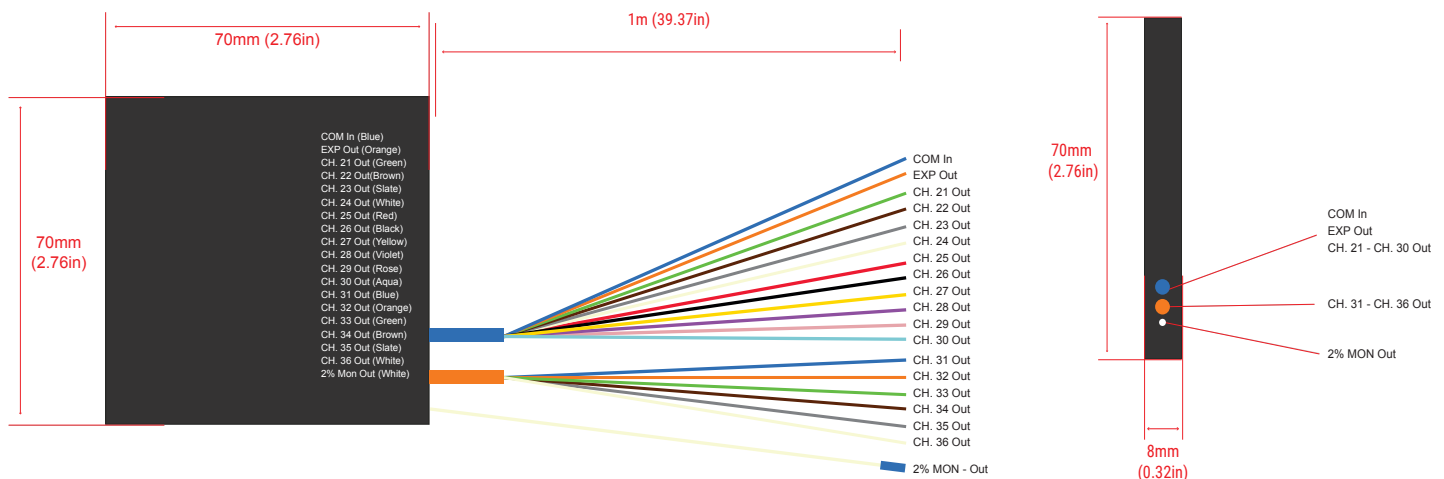
Parameter	Value
DWDM Channel Insertion Loss (Max., Incl. Connectors)	≤ 2.8dB
EXP Insertion Loss (Max., Incl. Connectors)	≤ 2.5dB
MON Port Insertion Loss (Incl. Connectors)	21.8dB Mux/19.0dB Demux

3. Network Diagram



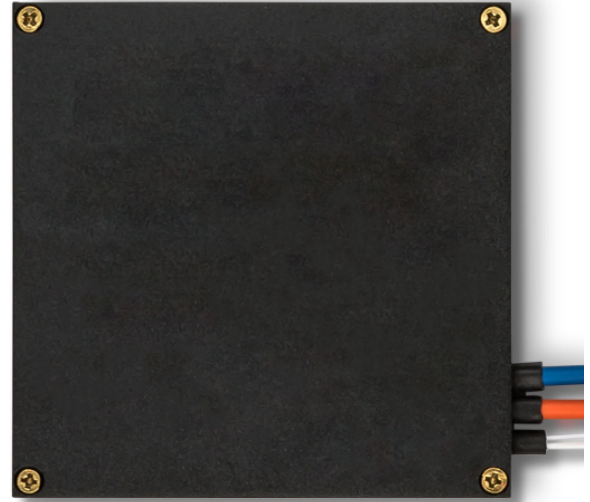
Channel	Typical	Max
CH. 36	1	1.2
CH. 35	1.3	1.5
CH. 34	1.6	1.8
CH. 33	1.9	2.1
CH. 32	2.2	2.4
CH. 31	2.5	2.7
CH. 30	2.8	3
CH. 29	3.1	3.3
CH. 28	3.4	3.6
CH. 27	3.7	3.9
CH. 26	4	4.2
CH. 25	4.3	4.5
CH. 24	4.6	4.8
CH. 23	4.9	5.1
CH. 22	5.2	5.4
CH. 21	5.5	5.7
EXP	4.6	4.8

4. Mechanical Diagram



Features:

- Single Fiber OSP DWDM 16 Channel 8 Service Demux
- Channel Wavelengths: DWDM CH. 37 - CH. 52
- Channel Spacing: 100GHz
- Maximum Optical Power: 300mW
- Connector Type: LC/UPC
- Reliability: Telcordia GR-1209, GR-1221
- Operating Temperature: -40 to 85°C
- Storage Temperature: -40 to 85°C



- Dimensions: 70mm x 70mm x 8mm
- White, 900um for Mon Port, Colored Bare Fiber for Other Ports



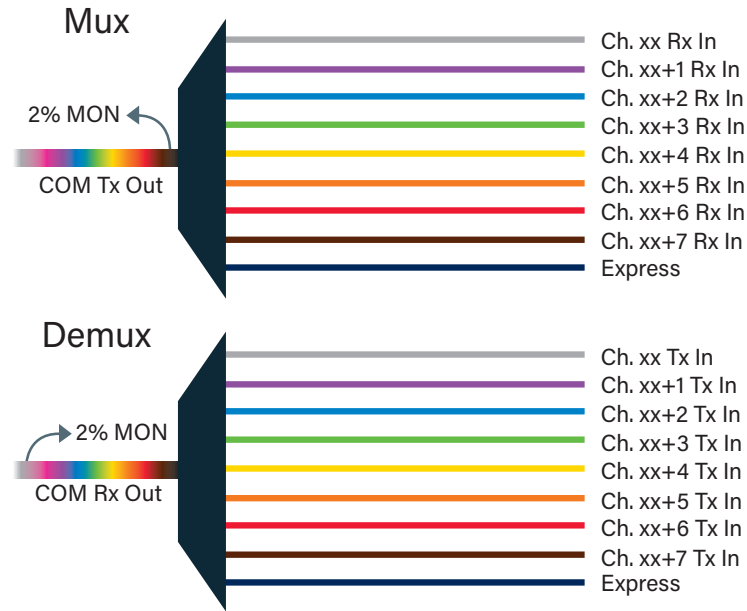
1. Optical Requirements

Parameter	Value
Passband, DWDM Channel Ports (Min.)	$\geq \text{ITU} \pm 0.11\text{nm}$
Passband Ripple (Max.)	$\leq 0.5\text{dB}$
Isolation, Adjacent Channel - DWDM (Min.)	$\geq 30\text{dB}$
Isolation, Non-Adjacent Channel - DWDM (Min.)	$\geq 40\text{dB}$
Isolation, EXP Port (Min.)	$\geq 12\text{dB}$
Return Loss - All Ports (Min., Including Connectors)	$\geq 45\text{dB}$
Directivity - DWDM Ports (Min.)	$\geq 50\text{dB}$
Polarization Dependent Loss (Max.)	$\leq 0.2\text{dB}$
Polarization Mode Dispersion (Max.)	$\leq 0.2\text{ps}$

2. Insertion Loss

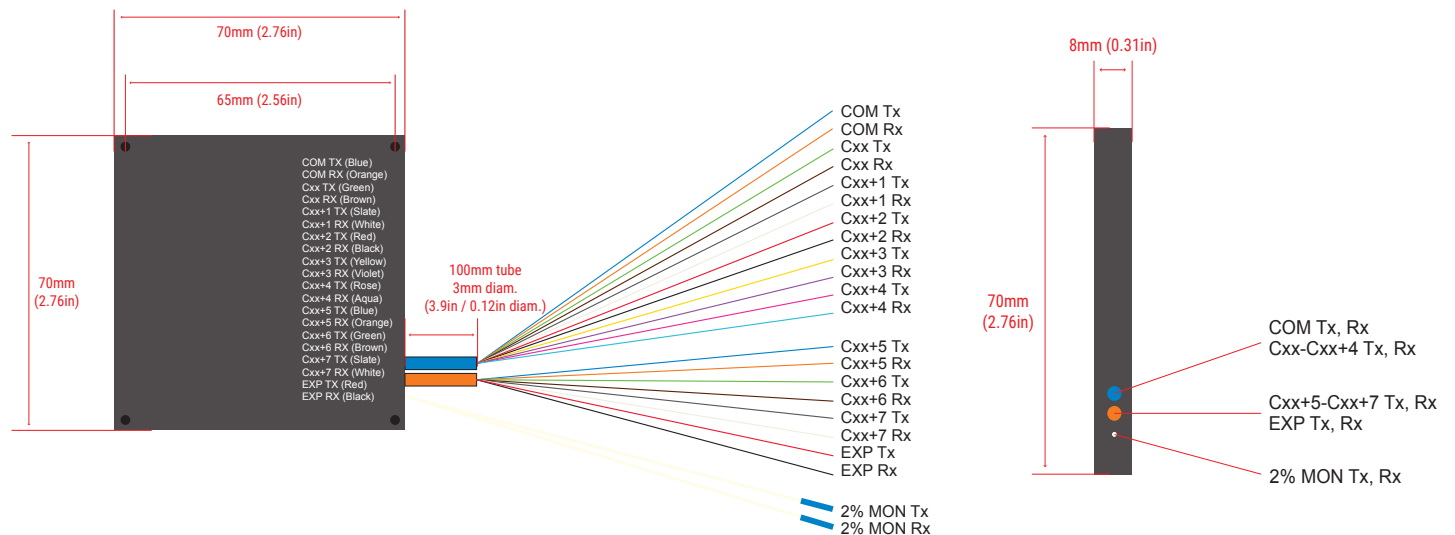
Parameter	Value
DWDM Channel Insertion Loss (Max., Incl. Connectors)	$\leq 6.0\text{dB}$
EXP Insertion Loss (Max., Incl. Connectors)	$\leq 5.0\text{dB}$
MON Port Insertion Loss (Incl. Connectors)	19.0dB Demux

3. Network Diagram



Channel	Mux		Demux	
	Typ (dB)	Max (dB)	Typ (dB)	Max (dB)
2% MON	21.6	21.8	19.0	19.0
CH. xx	1.1	1.2	2.6	2.8
CH. xx+1	1.3	1.5	2.4	2.6
CH. xx+2	1.6	1.8	2.2	2.4
CH. xx+3	1.8	2.0	2.0	2.2
CH. xx+4	2.0	2.2	1.8	2.0
CH. xx+5	2.2	2.4	1.6	1.8
CH. xx+6	2.4	2.6	1.3	1.5
CH. xx+7	2.6	2.8	1.1	1.2
EXP	2.3		2.5	

4. Mechanical Diagram



5. Ordering Information: Module

Part Number	Description
Standard OSP Cassette	
ZS-DW1-A18CL-8-1-16-0-2	DWDM M/D 100GHz 8 CH., LC and 900um (Mon only), CH. 16 Start, 8+1 Skip, Express, Mon, 2M Fibers
ZS-DW1-A18CL-8-1-25-0-2	DWDM M/D 100GHz 8 CH., LC and 900um (Mon only), CH. 25 Start, 8+1 Skip, Express, Mon, 2M Fibers
ZS-DW1-A18CL-8-1-34-0-2	DWDM M/D 100GHz 8 CH., LC and 900um (Mon only), CH. 34 Start, 8+1 Skip, Express, Mon, 2M Fibers
ZS-DW1-A18CL-8-1-43-0-2	DWDM M/D 100GHz 8 CH., LC and 900um (Mon only), CH. 43 Start, 8+1 Skip, Express, Mon, 2M Fibers
ZS-DW1-A18CL-8-1-52-0-2	DWDM M/D 100GHz 8 CH., LC and 900um (Mon only), CH. 52 Start, 8+1 Skip, Express, Mon, 2M Fibers
Submersible OSP Cassette	
ZS-DW1-A18CL-8-1-16-0-2-S	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 16 Start, Single Module, OSP 70mm x 70mm x 8mm, 2m Pigtail, Skip 0, Standard EXP, MON 2% M/D
ZS-DW1-A18CL-8-1-25-0-2-S	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 25 Start, Single Module, OSP 70mm x 70mm x 8mm, 2m Pigtail, Skip 0, Standard EXP, MON 2% M/D
ZS-DW1-A18CL-8-1-34-0-2-S	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 34 Start, Single Module, OSP 70mm x 70mm x 8mm, 2m Pigtail, Skip 0, Standard EXP, MON 2% M/D
ZS-DW1-A18CL-8-1-43-0-2-S	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 43 Start, Single Module, OSP 70mm x 70mm x 8mm, 2m Pigtail, Skip 0, Standard EXP, MON 2% M/D
ZS-DW1-A18CL-8-1-52-0-2-S	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 34 Start, Single Module, OSP 70mm x 70mm x 8mm, 2m Pigtail, Skip 0, Standard EXP, MON 2% M/D

6. Contact Information

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Web: <http://www.approvednetworks.com>