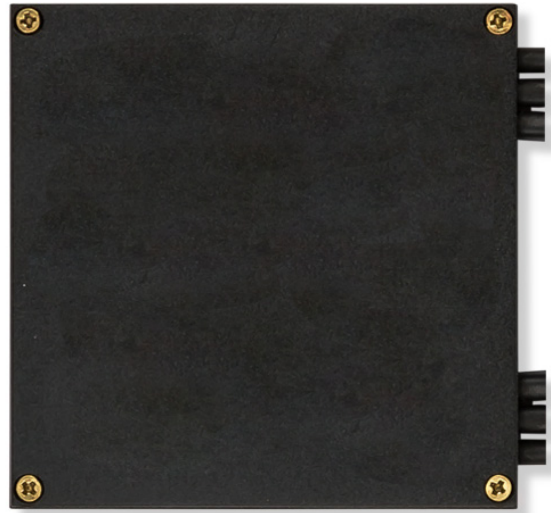


### Features:

- Single Fiber OSP DWDM 16 Channel 8 Service Mux
- Channel Wavelengths: DWDM CH. 21 - CH. 36
- 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



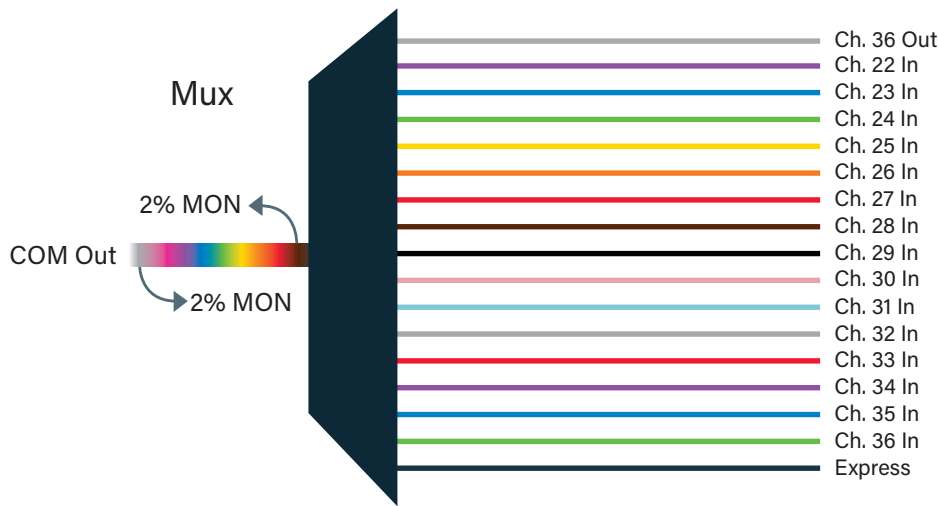
### 1. Optical Requirements

Parameter	Value
Passband, DWDM Channel Ports (Min.)	$\geq \text{ITU} \pm 0.11\text{nm}$
Express Pass Frequency Range (Excl., Channel Wavelengths)	1250 - 1675nm
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

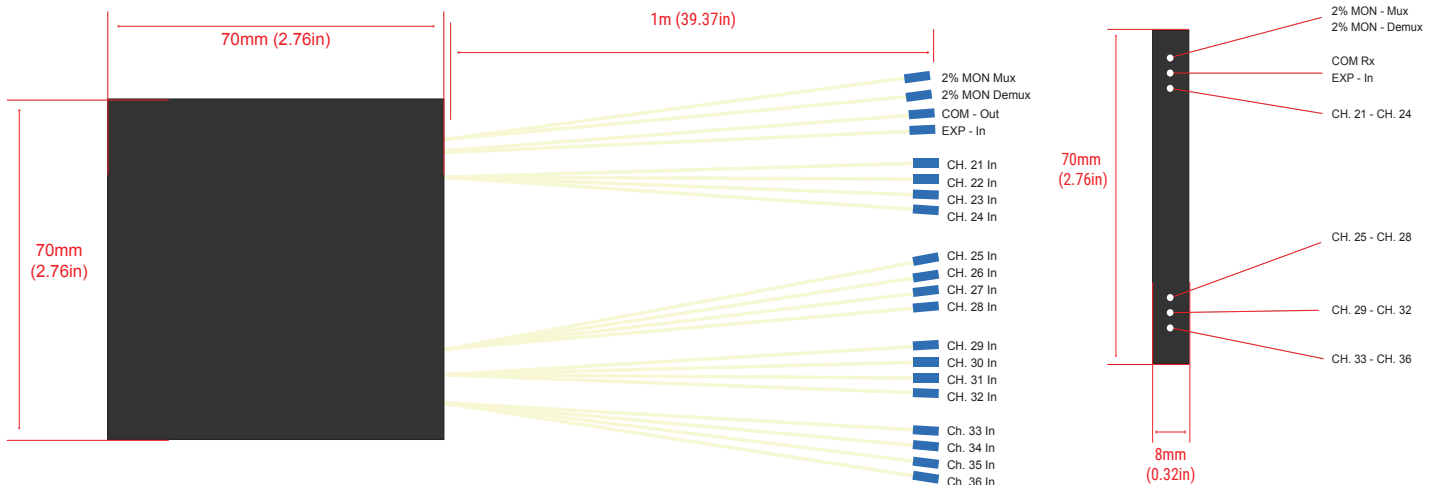
Parameter	Value
DWDM Channel Insertion Loss (Max., Incl. Connectors)	≤ 5.7dB
EXP Insertion Loss (Max., Incl. Connectors)	≤ 4.8dB
MON Port Insertion Loss (Incl. Connectors)	24.7dB Mux/19.0dB Demux

### 3. Network Diagram



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

### 4. Mechanical Diagram



## 5. Ordering Information

Root SKU	Part Number	Description
D4T16LC21A2090	ZS-DW1-D116CL-NN21-0-1	DWDM, Single Module, Single Fiber MUX, 100G Spacing, 16 CH/8 Svc, EXP, LC, 900um LC, MON, CH. 21 Start, Module Only, 1m Fibers

## 7. Contact Information

Tel: 800.590.9535

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