

# PRODUCT ENGINEERING SPECIFICATION

**Product Name:** NCWDM-08-MD-47-19-1310

**Product Description:** 8+1 CWDM Mux/Demux

8 Wavelength: 1470-1610nm

Monitoring Wavelength: 1310nm

Connector: LC/UPC, 1U 19" Rack

## Engineering Change Notice (ECN)

No.	ECN Content Description	ECN Date	Make Revise	Rev.	Notes

## 8+1 CWDM Mux/Demux 1U Rack

### 1. Product Description:

**Part Number:** NCWDM-08-MD-47-19-1310

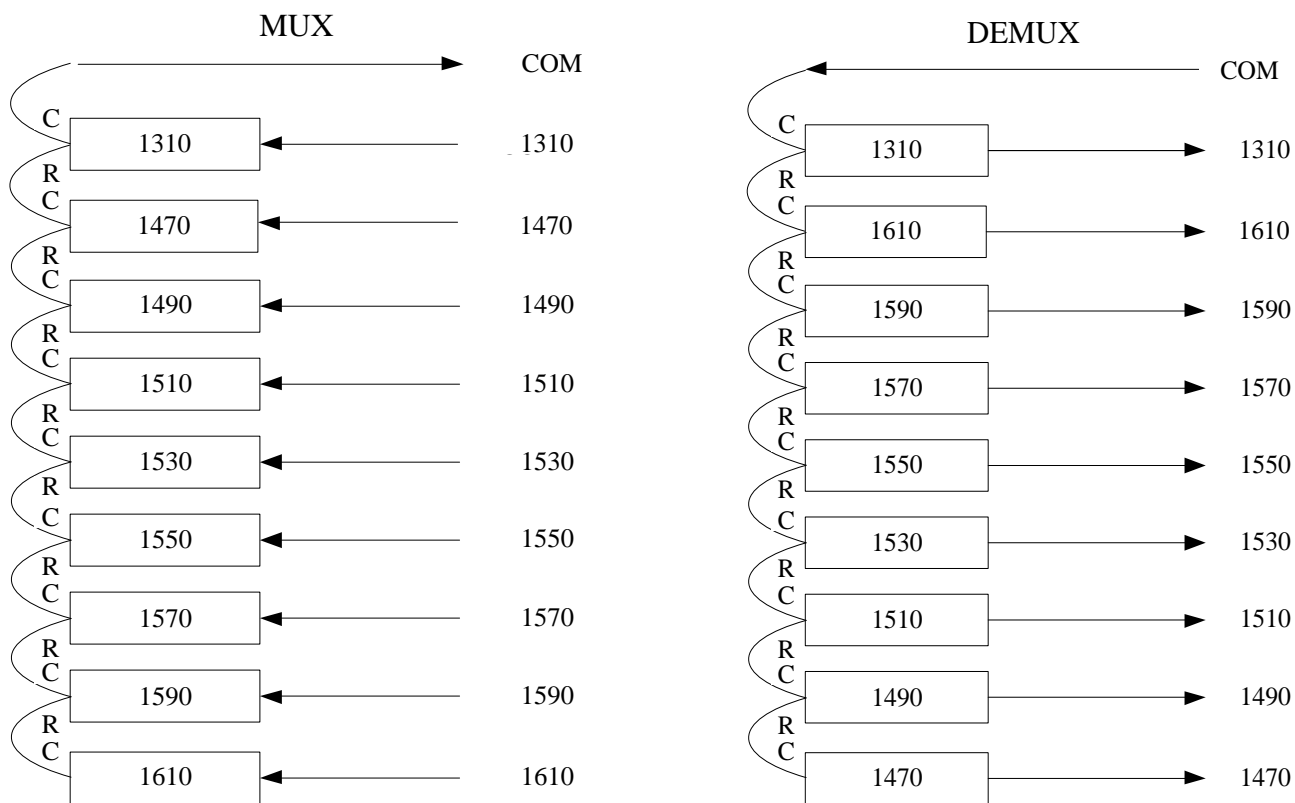
**Description:** 8+1 CWDM Mux/Demux, Fiber Type: SMF-28e, Wavelength: 1470-1610nm, Monitoring Wavelength: 1310nm, Package: 1U 19" Rack, Connector: LC/UPC.

### 2. Specifications:

Parameter	Unit	Value
Channel Number	CH	8+1
Operation Wavelength	nm	1260 ~ 1620
Channel Central Wavelength	nm	1470, 1490...1590, 1610
Monitoring Wavelength	nm	1310±50
Channel Space	nm	20
Channel Passband	nm	$\lambda@ITU\pm 6.5/CWDM$
Passband @-0.5dB	nm	≥14
Reflection-band	nm	1260~( $\lambda_c-12.5$ ) & ( $\lambda_c+12.5$ )~1620
Insertion Loss (Typ.)	dB	2.6
Insertion Loss (Max.)	dB	3.0
Adjacent Channel Isolation	dB	≥30
Non-adjacent Channel Isolation	dB	≥45
Monitor Channel Isolation	dB	>15
Passband Ripple	dB	≤0.30
Return Loss	dB	≥50
Polarization Mode Dispersion (PMD)	ps	≤0.20
Polarization Dependent Loss (PDL)	dB	≤0.10
Power Handling	mW	<500
Connector Type	-	LC/UPC
Operation Temperature	°C	-20 ~ +85
Storage Temperature	°C	-40 ~ +85
Package Dimension	mm	1U 19" Rack

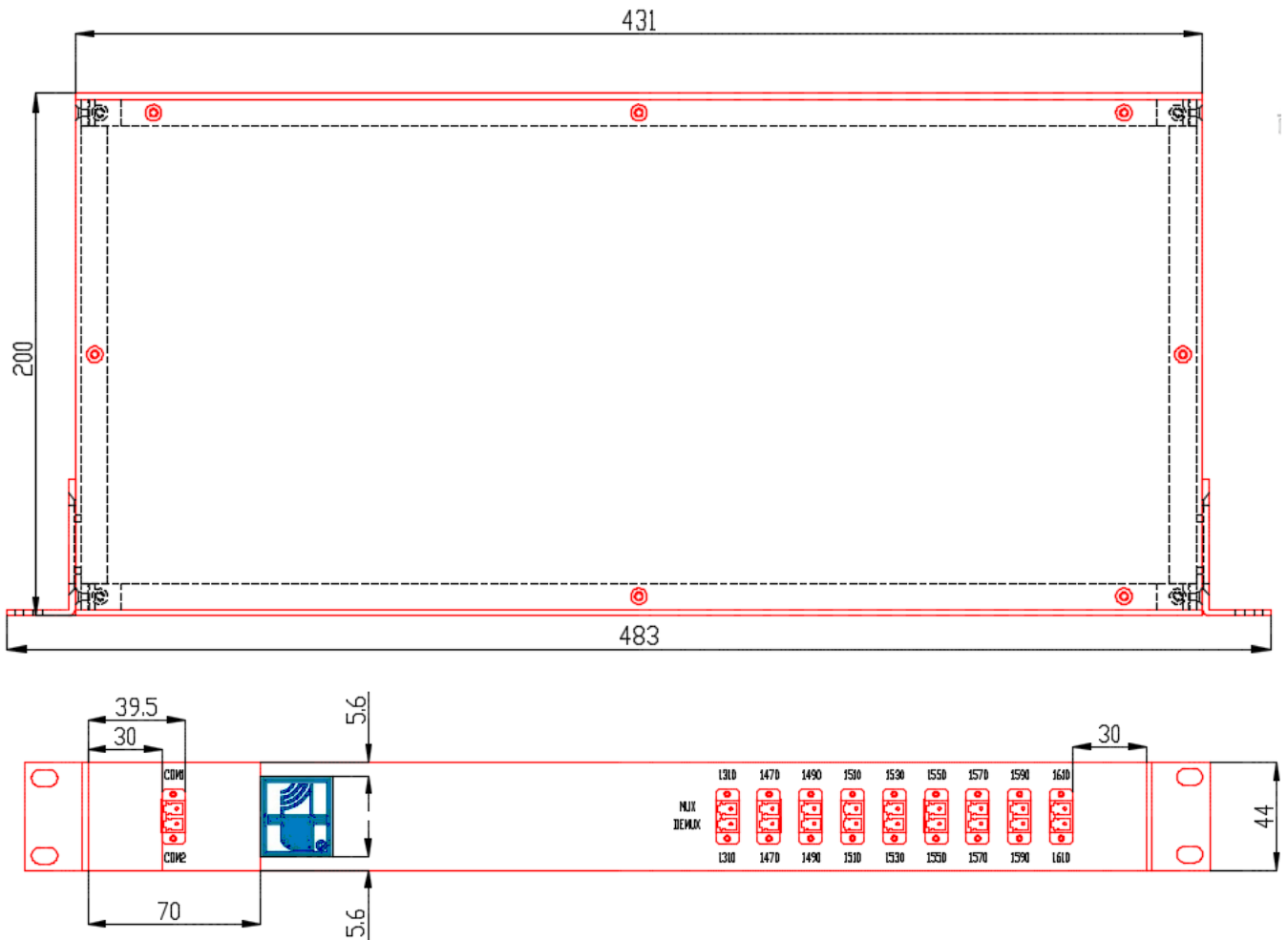
Note: The above parameter is without connector. If with connector, IL will increase by 0.3dB.

### 3. Optical Path Diagram



Part Number	Mux Port	Demux Port
NCWDM-08-MD-47-19-1310	1310nm	1310nm
	1470nm	1610nm
	1490nm	1590nm
	1510nm	1570nm
	1530nm	1550nm
	1550nm	1530nm
	1570nm	1510nm
	1590nm	1490nm
	1610nm	1470nm

#### 4. Outline Drawing (unit: mm):



#### 5. Label Diagram:



## 6. Test Report:

The test report should be provided when the products are delivered. Following characteristic test data should be included:

- Insertion Loss (Port1-Port8)
- Adjacent Channel Isolation
- Isolation
- PDL

## 7. Packaging:

Following items should be indicated on the outer packaging surface:

Product Name

Product Number

Serial Number (SN bar code)

