

PRODUCT ENGINEERING SPECIFICATION

Product Name :	<u>16CH CWDM Demux Module</u>
Product Number :	<u>NCWDM-16-D-31-LGX</u>
Customer PN :	<u>NCWDM-16-D-31-LGX</u>
Product Description:	<u>16 Channel CWDM Demux</u> <u>16 Wavelength: 1310-1610nm</u> <u>Connector: LC/UPC, LGX</u> <u>Box: 215*200*20.2mm</u>

16CH CWDM Demux LGX Module

1. Product Description:

Part Number: NCWDM-16-D-31-LGX

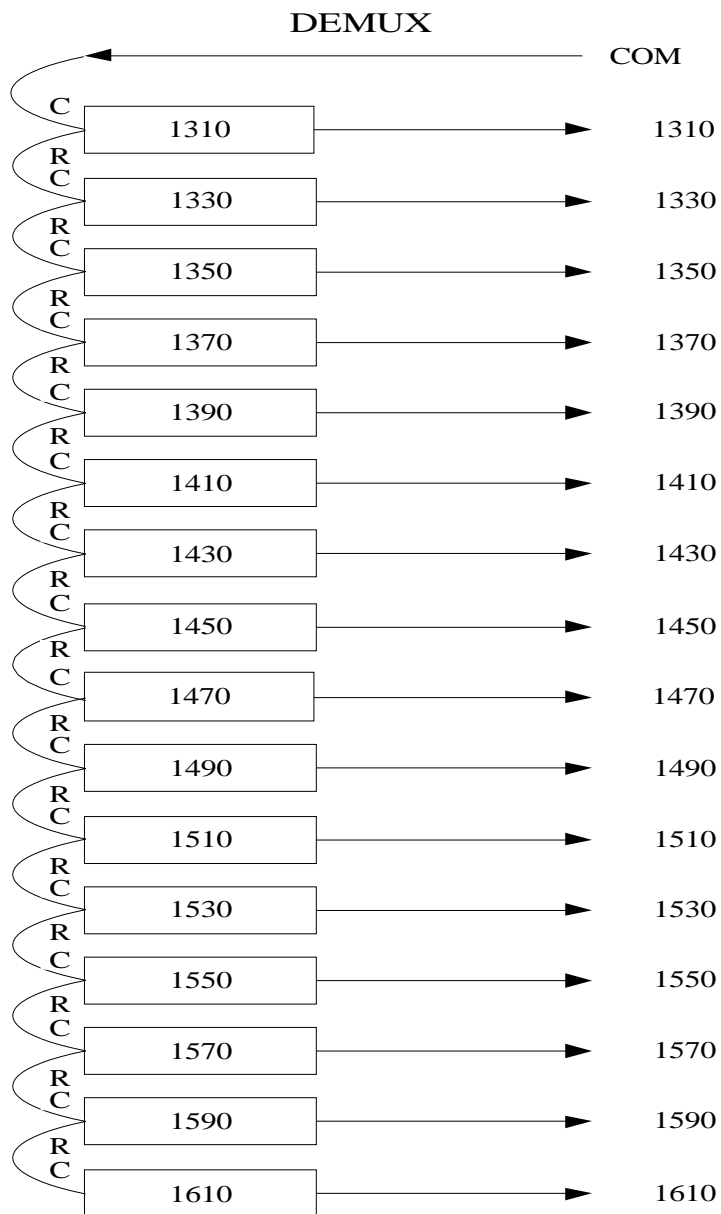
Description: 16CH CWDM Demux, Fiber Type: SMF-28e, Wavelength: 1310-1610nm,
Package: LGX Box 215*200*20mm, Connector: LC/UPC.

2. Specifications:

Parameter	Unit	Value
Channel Number	CH	16
Operation Wavelength	nm	1260 ~ 1620
Channel Central Wavelength	nm	1310, 1330...1590, 1610
Channel Space	nm	20
Channel Passband	nm	$\lambda@ITU\pm 6.5/CWDM$
Passband@-0.5dB	nm	≥ 14
Reflection-band	nm	$1260\sim(\lambda_c-12.5) \& (\lambda_c+12.5)\sim 1620$
Insertion Loss (Typ.)	dB	≤ 4.5
Insertion Loss (Max.)	dB	≤ 5.0
Adjacent Channel Isolation	dB	≥ 30
Non-adjacent Channel Isolation	dB	≥ 45
Passband Ripple	dB	≤ 0.30
Return Loss	dB	≥ 50
Polarization Mode Dispersion (PMD)	ps	≤ 0.20
Polarization Dependent Loss (PDL)	dB	≤ 0.15
Power Handling	mW	< 500
Connector Type	-	LC/UPC
Operation Temperature	°C	-20 ~ +70
Storage Temperature	°C	-40 ~ +85
Package Dimension	mm	LGX Box: 215*200*20.2

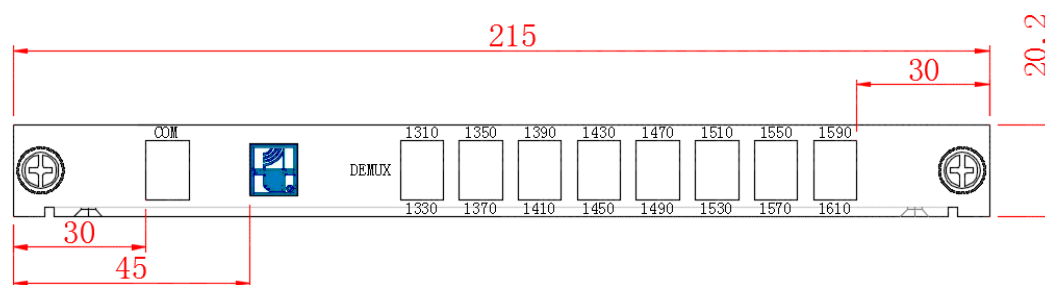
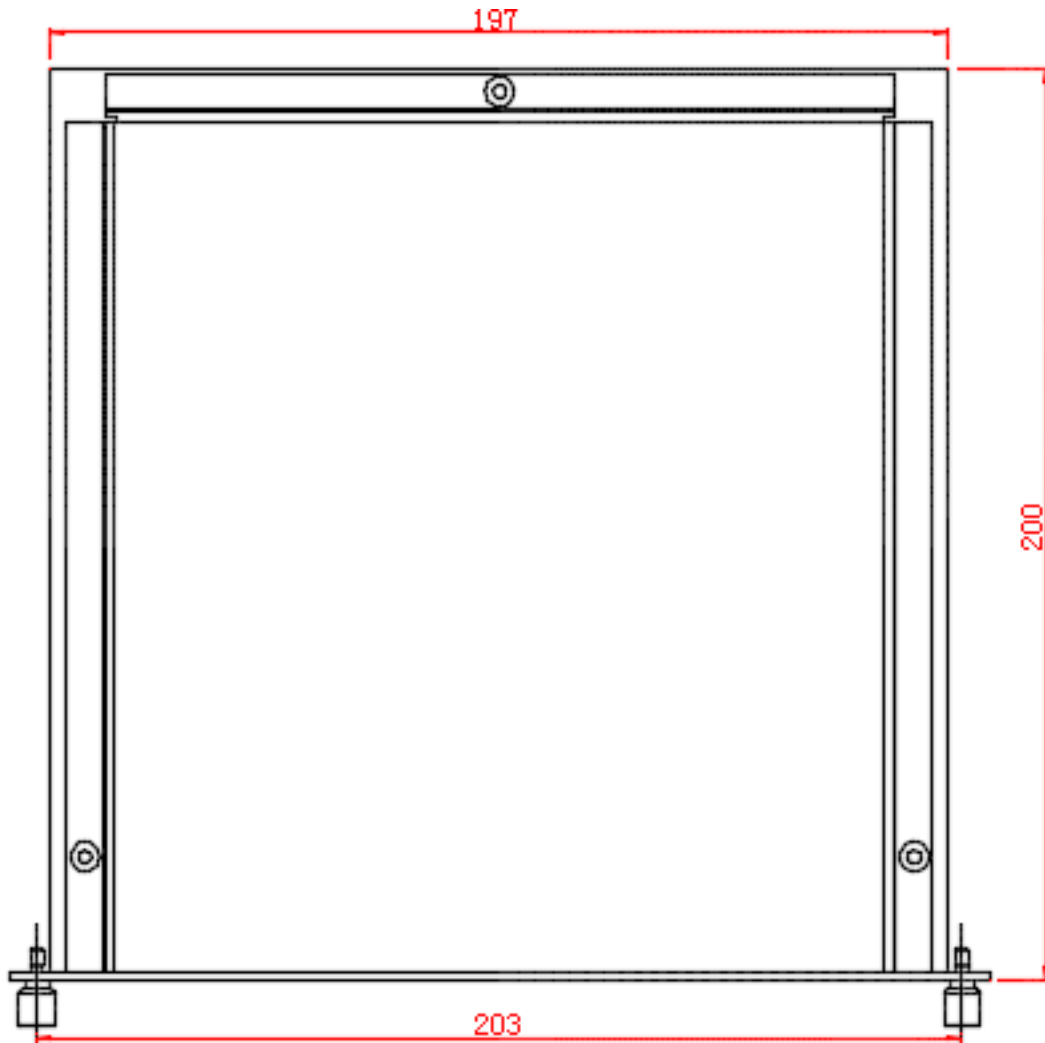
Note: The above parameter is without connector. If with connector, IL will increase by 0.3dB.

3. Optical Path Diagram



Part Number	Output Port	Wavelength
NCWDM-16-D-31-LGX	Port1	1310nm
	Port2	1330nm
	Port3	1350nm
	Port4	1370nm
	Port5	1390nm
	Port6	1410nm
	Port7	1430nm
	Port8	1450nm
	Port9	1470nm
	Port10	1490nm
	Port11	1510nm
	Port12	1530nm
	Port13	1550nm
	Port14	1570nm
	Port15	1590nm
	Port16	1610nm

5. Outline Drawing (mm):



6. Label Diagram:



7. Test Report:

The test report should be provided when the products are delivered. Following characteristic test data should be shown below (FYI):

CWDM DEMUX Module Test Data Report

P/N	CWDM-D16C310FSM21PLP							
S/N	22021097182932							
Operating Wavelength(nm)	1260-1620							
Channel Bandwidth(nm)	$\lambda_c \pm 6.5$							
Central Wavelength(nm)	1310	1330	1350	1370	1390	1410	1430	1450
Insertion Loss (dB)								
Central Wavelength(nm)	1470	1490	1510	1530	1550	1570	1590	1610
Insertion Loss (dB)								
Ripple (dB)	≤ 0.30							
Polarization Dependent Loss (dB)	≤ 0.15							
Polarization Mode Dispersion (Ps)	≤ 0.2							
Isolation	Adjacent Channel (dB)	≥ 30						

	Non-Adj Channel (dB)	≥ 45	
	Return Loss (dB)	≥ 50	
	Fiber Type	SMF-28e 0.9mm Loose Tube	
	Connector	LC/UPC	
	Operating Temperature (°C)	-20 ~ +70	
	Storage Temperature (°C)	-40 ~ +85	
	Package Dimension (mm)	LGX Box: 215*200*20.2	
	Tested By	Date:	
	Inspected By	Date:	

8. Packaging:

Following items should be indicated on the outer packaging surface:

- Product Name
- Product Number
- Serial Number (SN bar code)



8CH CWDM DEMUX Module Test Data Report



P/N	NCWDM-08-D-47-LGX							
S/N	2109290092							
Operating Wavelength(nm)	1460-1620							
Channel Bandwidth(nm)	40.5							
Center Wavelength(nm)	1470	1490	1510	1530	1550	1575	1590	1610
Insertion Loss (dB)	0.44	0.50	0.53	0.63	2.40	1.65	1.88	2.38
Ripple (dB)	≤0.30							
Polarization Dependent Loss (dB)	≤0.50							
Polarization Mode Dispersion (Ps)	≤0.30							
Isolation	Adjacent Channel (dB)	≥30						
	Non-Adj Channel (dB)	≥40						
Return Loss (dB)	≥30							
Directivity (dB)	≥30							
Power Handling (mW)	500							
Fiber Type	SMP-28E 0.8mm Loose Tube							
Fiber Length (m)	≥0.5							
Connector	LC/APC							
Operating Temperature (°C)	-25 ~ +65							
Storage Temperature (°C)	-40 ~ +85							
Package Dimension (mm)	215*220*20							
Tested By	360	Date						2024/09/10
Inspected By	317	Date						2024/09/10

8CH CWDM Demux Module

 P/N: NCWDM-08-D-47-LGX

 S/N: 2109290092

REDMI K30 5G

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