

PRODUCT ENGINEERING SPECIFICATION

Product Name: 2CH CWDM OADM

Product Number: NOADM-02QXXBXX

Product Description: 2 Channel CWDM OADM

Two Wavelength Add/Drop: λ_1/λ_2

Connector: LC/UPC, ABS Box 86*86*23mm

2CH CWDM OADM MODULE

1. Product Description:

Product Number: NOADM-02QXXBXX

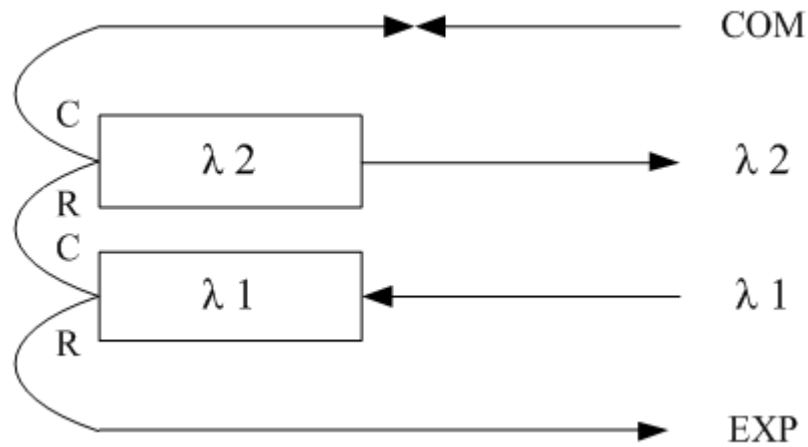
Description: 2CH CWDM OADM, Fiber Type: SMF-28e, Wavelength Channel: λ_1/λ_2 (Add/Drop), Package: ABS Box 86*86*23 mm, Port: COM, Add, Drop and EXP, Connector: LC/UPC.

2. Specifications:

Parameter	Unit	Value
Channel Number	CH	2
Product Type	-	OADM
Operation Wavelength	nm	1260 ~ 1620
Channel Central Wavelength	nm	1270/1290...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 (COM→Drop @ λ_{Drop})	dB	≤ 0.6
Insertion Loss (Add→COM @ λ_{Add})	dB	≤ 0.9
Insertion Loss (COM→EXP @other λ)	dB	≤ 0.6
Adjacent Channel Isolation	dB	≥ 30
Non-adjacent Channel Isolation	dB	≥ 45
Isolation (COM→EXP @ λ_{Drop})	dB	≥ 15
Passband Ripple	dB	≤ 0.3
Return Loss	dB	≥ 50
Polarization Mode Dispersion (PMD)	ps	≤ 0.20
Polarization Dependent Loss (PDL)	dB	≤ 0.1
Power Handling	mW	<500
Connector Type	-	LC/UPC
Operation Temperature	°C	-20 ~ +85
Storage Temperature	°C	-40 ~ +85
Package Dimension	mm	ABS Box: 86*86*23

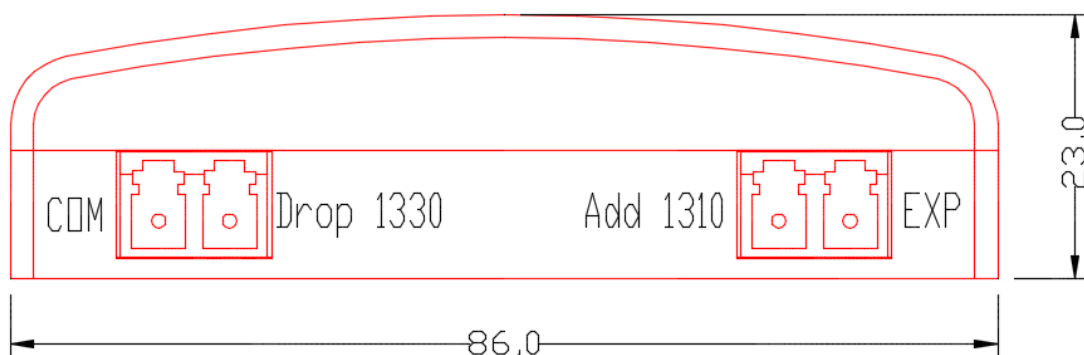
Note: The above parameter is without connector. If with connector, IL will increase by 0.3dB.

3. Optical Path Diagram (Add/Drop: λ_1/λ_2)

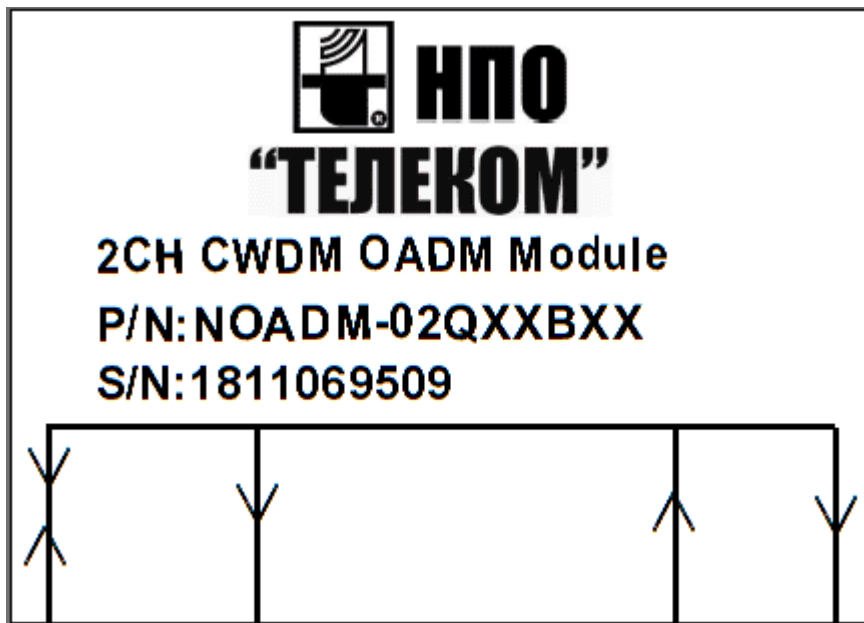


Part Number	Add: λ_1	Drop: λ_2
NOADM-02Q31B33	1310nm	1330nm
NOADM-02Q35B37	1350nm	1370nm
NOADM-02Q39B41	1390nm	1410nm
NOADM-02Q43B45	1430nm	1450nm
NOADM-02Q47B49	1470nm	1490nm
NOADM-02Q51B53	1510nm	1530nm
NOADM-02Q55B57	1550nm	1570nm
NOADM-02Q59B61	1590nm	1610nm

4. Outline Drawing:



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 (COM→Drop @ λ Drop)
- Insertion Loss (Add→COM @ λ Add)
- Insertion Loss (COM→EXP @other λ)
- Adjacent Channel Isolation
- Isolation (COM→EXP @ λ Drop)
- PDL

7. Packaging:

Following items should be indicated on the outer packaging surface:

Product Name

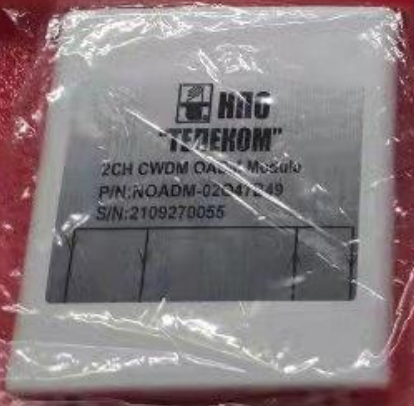
Product Number

Serial Number (SN bar code)



CWDM OADM Module Test Data Report

Part	NOADM-02047B49	
S/N	2109270049	
Operating Wavelength (nm)	1250-1620	
Channel Bandwidth (nm)	>=68.5	
Central Wavelength (nm)	ADD-1470	
Insertion Loss (dB)	0.71	
Channel Ripple (dB)	DROP-1480	
Polarization Dependent Loss (dB)	0.22	
Temperature Dependent Loss (dB/C)	<=0.5	
Isolation	Adjacent Channel (dB)	<=0.1
	Non-Adj Channel (dB)	<=0.025
Return Loss (dB)	>=30	
Directivity (dB)	>=45	
Polarization Mode Dispersion	>=45	
Power Handling (PM)	<=0.5	
Fiber Type	<=0.2	
Fiber Length (m)	<=900mW	
Connector	SMF 200 28Core Bare Fiber	
Operating Temperature (T)	>=0.5	
Storage Temperature (T)	LC/LPC	
Package Dimension (mm)	20 * 18.5	
Tested By	-40 ~ +85	
Inspected By	384	Date 2021/02/05
	301	Date 2021/02/05





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