

PRODUCT ENGINEERING SPECIFICATION

Product Name: 4CH CWDM OADM

Product Number: NOADM-04QXXXXBXXXX

Product Description: 4 Channel CWDM OADM
Four Wavelength Add/Drop: $\lambda_1/\lambda_2, \lambda_3/\lambda_4$
Connector: LC/UPC, ABS Box 100*85*30mm

4CH CWDM OADM MODULE

1. Product Description:

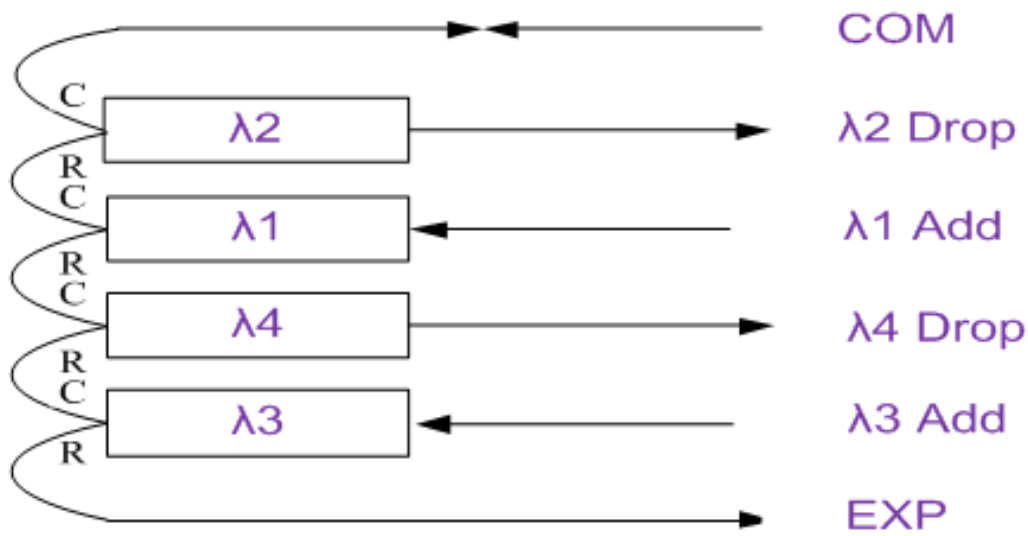
Description: 4CH CWDM OADM, Fiber Type: SMF-28e, Wavelength Channel: λ_1/λ_2 , λ_3/λ_4 (Add: λ_1 and λ_3 , Drop: λ_2 and λ_4), Package: ABS Box 100*85*30 mm, Port: COM, Add1, Drop1, Add2, Drop2 and EXP, Connector: LC/UPC.

2. Specifications:

Parameter	Unit	Value
Channel Number	CH	4
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~($\lambda_c-12.5$) & ($\lambda_c+12.5$)~1620
Insertion Loss (COM→Drop1 @ λ_2)	dB	≤ 0.6
Insertion Loss (Add1→COM @ λ_1)	dB	≤ 0.9
Insertion Loss (COM→Drop2 @ λ_4)	dB	≤ 1.2
Insertion Loss (Add2→COM @ λ_3)	dB	≤ 1.5
Insertion Loss (COM→EXP @other λ)	dB	≤ 1.5
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: 100*85*30

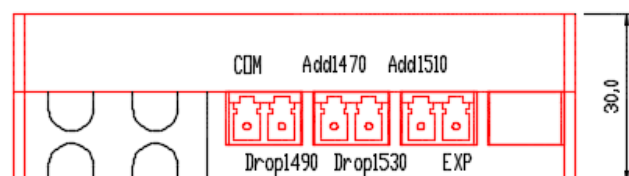
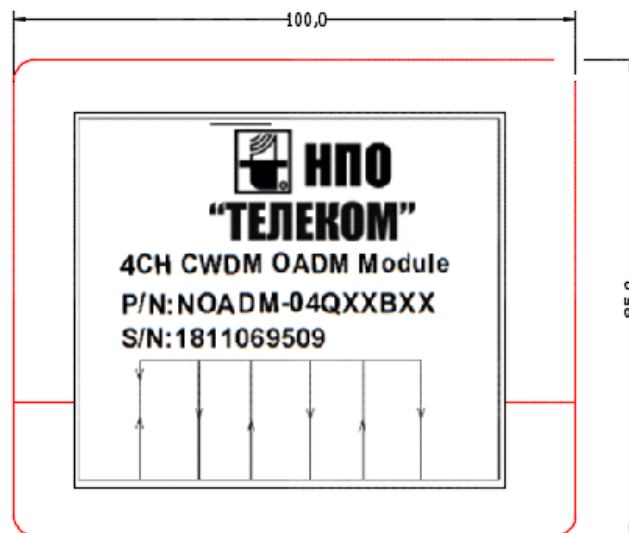
Note: The above parameter is without connector. If with connector, IL will increase by 0.3dB.

3. Optical Path Diagram (Add/Drop: λ_1/λ_2 , λ_3/λ_4)



Part Number	Add: λ_1	Drop: λ_2	Add: λ_3	Drop: λ_4
NOADM-04Q4749B5153	1470nm	1490nm	1510nm	1530nm
NOADM-04Q5557B5961	1550nm	1570nm	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→Drop1 @ λ_2)
- Insertion Loss (Add1→COM @ λ_1)
- Insertion Loss (COM→Drop2 @ λ_4)
- Insertion Loss (Add2→COM @ λ_3)
- 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)

