

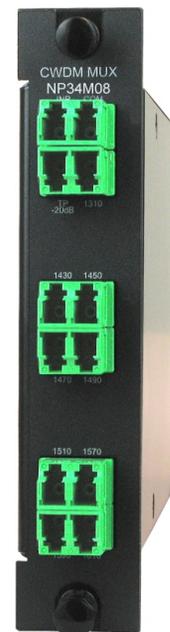
Optical Passives (ISP)

NP34M08

8-channel CWDM Multiplexers with Integrated 1310 nm Combiner/Splitter, -20 dB Line Monitoring Tap and LC/APC Connectors

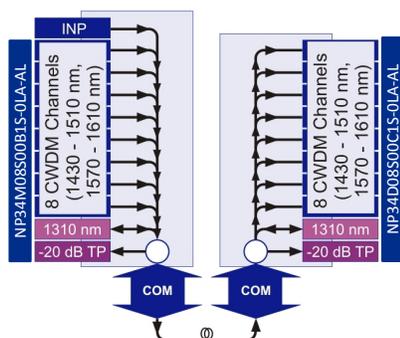
FEATURES

- Flat and wide operating passband on CWDM ITU grid (20 nm spacing)
- Low polarization dependent loss (PDL)
- Telcordia GR-1209 and GR-1221 qualified, providing excellent environmental and mechanical stability
- Integrated 1310 nm combiner/splitter
- Line monitoring tap
- Occupies one half-depth slot
- 1310 nm can act as cascade port



PRODUCT OVERVIEW

The ARRIS NP34M08 eight-channel CWDM multiplexers are designed to multiplex eight CWDM ITU-grid optical wavelengths onto one fiber output, with individual wavelengths ranging from 1430 to 1610 nm (with 20 nm spacing between channels and excepting 1530 and 1550 nm).



SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	6.5" D x 4.3" H x 1.0" W (3RU) (16.5 cm x 11 cm x 2.5 cm)
Weight	1.5 lbs (0.7 kg)
Environmental	
Operating temperature range	-20° to +65°C (-4° to +149°F)
Storage temperature range	-40° to +85°C (-40° to +185°F)
Humidity	5% to 95% non-condensing
Optical (all models)	
Passband @ 0.15 dB	
CWDM Ch. xxxx to COM	± 6.5 nm
INP to COM	1260–1635 nm except for multiplexed channels
1310-nm port to COM	1263–1357 nm
Insertion losses, max ¹ (dB)	
Ch. xxxx INP to COM	3.4
INP to COM	2.9
1310 to COM	1.6
Paired insertion loss ²	5.0
Return loss, min	45 dB
CWDM directivity, min	55 dB
1310 directivity, min	65 dB
1310-COM isolation, min	60 dB
Polarization dependent loss, max (typ)	0.15 (0.1) dB
Ripple within passband, max	0.5 dB
COM to -20 dB Tap Ratio (including connectors), max	20.4 dB
Channel spacing	20 nm
Power handling, max (any input port)	21.8 dBm
Optical Interface	
Optical connectors	LC/APC
Optical ports	<ul style="list-style-type: none"> • COM (output to fiber network) • INP (cascade channel input) • 1310 (input/output to/from fiber network for 1310 nm) • Ch. xxxx INP (8 channels added for xxxx = 1430, 1450, 1470, 1490, 1510, 1570, 1590, and 1610 nm) • TP -20 dB (1% tap, test point from COM)

NOTES:

1. Including connectors
2. Paired insertion loss when combined with 8-wavelength demux module from Ch. xxxx INP to Ch. xxxx OUT

ORDERING INFORMATION

Model Name	Description
NP34M08S00B1S-OLA-AL	Multiplexer, CWDM, 8 channels at 1430, 1450, 1470, 1490, 1510, 1570, 1590, and 1610 nm, single width, half depth module with 1310 nm filter port, -20 dB Test Port and DWDM expansion port with LC/APC connectors

RELATED PRODUCTS

CH3000 Chassis	Optical Patch Cords
Optical Transmitters	Optical Passives
PF3000	Installation Services

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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ISP-NP34M08