

Optical Passives (ISP)

NP34M10S 10-channel CWDM Multiplexer

FEATURES

- Designed for use with uncooled lasers based on 20 nm channel spacing
- Flat and wide operating passband on CWDM ITU grid (20 nm spacing)
- High channel isolation to minimize crosstalk
- Low polarization dependent loss (PDL)
- · Telcordia GR-1209 and GR-1221 qualified, providing excellent environmental and mechanical stability
- · Optional integrated 1310 nm combiner/splitter
- · Optional line monitoring tap
- · Occupies two half-depth slots
- 1310 nm can act as cascade port
- Replaces OP34M10S

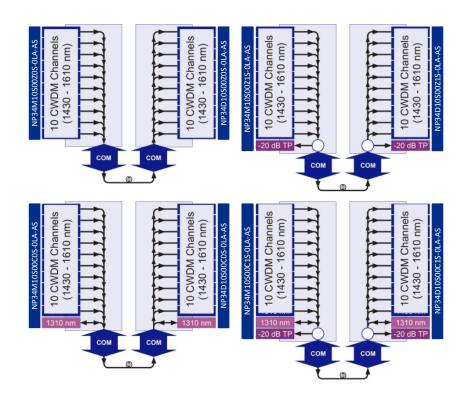


PRODUCT OVERVIEW

ARRIS's NP34M10S Series 10-channel CWDM multiplexers are designed to multiplex 10 CWDM ITU-grid optical wavelengths onto one fiber output, with the 10 individual wavelengths ranging from 1430 to 1610 nm (with 20 nm spacing between channels).

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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) for NP34M10S00B1S-0LA-AL $6.5''$ D x $4.3''$ H x $2.0''$ W (3RU) (16.5 cm x 11 cm x 5.0 cm) for all other available part numbers
Weight	1.3 lbs (0.6 kg) for NP34M10S00B1S-0LA-AL 2.5 lbs (1.1 kg) for all other model numbers
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)	
Return loss, min (dB)	45
Polarization dependent loss, max (typ) (dB)	0.15 (0.1)
Ripple within passband, max (dB)	0.5
Channel spacing (nm)	20
Passband for CWDM channel port @ −0.15 dBc (nm)	± 7 (around the center wavelength)
Passband for 1310-nm input (unavailable in NP34M10S00Z0S-0LA-AS) (nm)	1263.5-1357.5
Passband for CWDM cascade input (available only in NP34M10S00B1S-0LA-AL) (nm)	1423.5-1617.5
CWDM directivity, min (dB)	55
1310 -nm bypass directivity, min (dB)	65
COM-to-1310-nm bypass isolation, min (dB)	60
Power handling, max (any input port) (dBm)	21.8
Optical Interface	
Optical connectors	SC/APC or LC/APC (See Ordering Information)
Optical ports	See Ordering Information

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NP34M10S00B1S-0LA-AS	NP34M10S00C0S-0LA-AS	NP34M10S00C1S-0LA-AS	NP34M10S00Z0S-0LA-AS
3.3	2.9	3.2	2.7
1.3	1.1	1.3	N/A
4.7	3.9	4.5	3.5
3.1	N/A	N/A	N/A
20.4	N/A	20.4	N/A
	3.3 1.3 4.7 3.1	3.3 2.9 1.3 1.1 4.7 3.9 3.1 N/A	3.3 2.9 3.2 1.3 1.1 1.3 4.7 3.9 4.5 3.1 N/A N/A

NOTES:

- 1. Including connectors
- 2. Paired insertion loss when combined with 10-wavelength demux module from Ch. xxxx INP to Ch. xxxx OUT

ORDERING INFORMATION		
Model Name	Description	
NP34M10S00Z0S-0LA-AS	 COM (output to fiber network) Ten CWDM channel inputs at 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610 nm SC/APC connectors throughout Double-width module 	
NP34M10S00C0S-0LA-AS	 COM (output to fiber network) Ten CWDM channel inputs at 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610 nm 1310 (for adding channels in the 1263.5–1357.5 nm band to the fiber network) SC/APC connectors throughout Double-width module 	
NP34M10S00C1S-0LA-AS	 COM (output to fiber network) Ten CWDM channel inputs at 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610 nm 1310 (for adding channels in the 1263.5–1357.5 nm band to the fiber network) TP –20 dB (1% tap, test point from COM) SC/APC connectors throughout Double-width module 	
NP34M10S00B1S-0LA-AL	 COM (output to fiber network) Ten CWDM channel inputs at 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610 nm INP (CWDM cascade input) 1310 (for adding channels in the 1263.5–1357.5 nm band to the fiber network) TP –20 dB (1% tap, test point from COM) LC/APC connectors throughout Single-width module 	

RELATED PRODUCTS	
CH3000	PF3000
NP34D10S	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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