

Optical Passives (ISP)

NP34D08, NP34D10

8- and 10-channel CWDM Demultiplexers with Integrated 1310 nm Combiner/Splitter, -20 dB Line Monitoring Tap and LC/APC Connectors

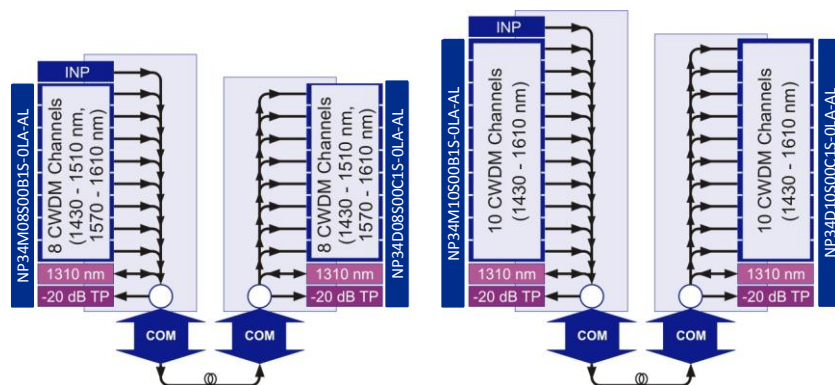
FEATURES

- 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
- LGX chassis-compatible
- Replaces OP34M8C and OP34M10C



PRODUCT OVERVIEW

ARRIS NP34D08 and NP34D10 series 8- and 10-channel CWDM demultiplexers are designed to demultiplex several CWDM ITU-grid optical wavelengths from one fiber input, with individual wavelengths ranging from 1430 to 1610 nm (with 20 nm spacing between channels) in the model NP34D10, and 8 of the same 10 wavelengths (excepting 1530 and 1550 nm) in the model NP34D08. These CWDM demultiplexers feature high adjacent channel isolation and are suitable for bidirectional mux/demux applications.



Representative functional block diagrams. Other applications, including use of field passives and/or bidirectional signal flows, are also possible.

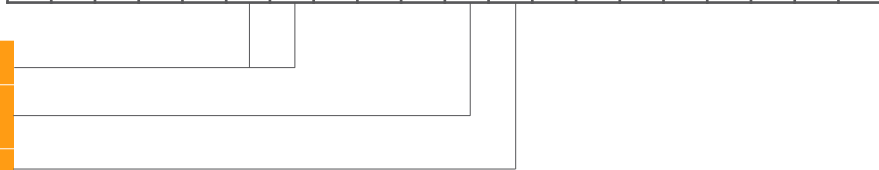
SPECIFICATIONS

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		
COM to CWDM Ch xxxx	± 6.5 nm	
COM to OUT	1264.5-1617.5 nm except for add/drop xxxx	
Return loss, min	45 dB	
CWDM directivity, min	55 dB	
1310 directivity, min	65 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	
	NP34D08S00B1S-OLA-AL	NP34D10S00B1S-OLA-AL
Insertion losses (including optical connectors), max ¹ (dB)		
COM to Ch xxxx INP	3.4	3.9
COM to OUT	2.9	N/A
1310 to COM	1.6	1.6
Isolation, min (dB)		
COM to Ch xxxx INP	35	35
1310 to COM	60	60
Adjacent channel	35	35
Non-adjacent channel	45	45
Optical connectors		
LC/APC		
Model NP34D08S00B1S-OLA-AL	<ul style="list-style-type: none"> COM (input from network for CWDM; output to network for 1310) OUT (cascade channel output to next demux) 1310 (input/output to/from fiber network for 1310 nm) Ch xxxx OUT (8 channels dropped for xxxx = 1430, 1450, 1470, 1490, 1510, 1570, 1590 and 1610 nm) TP -20 dB (1% tap, test point from COM) 	
Model NP34D10S00B1S-OLA-AL	<ul style="list-style-type: none"> COM (input from network for CWDM; output to network for 1310) 1310 (input/output to/from fiber network for 1310 nm) Ch xxxx OUT (10 channels dropped for xxxx = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm) TP -20 dB (1% tap, test point from COM) 	

ORDERING INFORMATION

N	P	3	4	D	*	*	S	0	0	*	*	S	-	0	L	A	-	A	L
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- ** = number of channels (08 or 10)
- * = B (cascade and 1310-nm ports present); = C (1310-nm port present, no cascade port); =Z (no 1310-nm port, no cascade port)
- * = 0 (no test point); = 1 (with test point)



RELATED PRODUCTS

CH3000 Chassis	Optical Patch Cords
Optical Transmitters	Optical Passives
PF3000	

Customer Care

Contact Customer Care for product information and sales:

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

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