

Optical Passives (OSP)

DP94D08 (B-Series)

8-channel OSP CWDM Demultiplexer

FEATURES

- 8-channel optical demultiplexer cassette
- Temperature hardened (-40° to $+85^{\circ}\text{C}$) S-case Field Enclosures for OSP outside plant mounting
- Wide operating passband on CWDM ITU grid (20 nm spacing)
- Type A: Skip 1551/1571 nm
- Type B: Skip 1431/1451 nm
- Type C: Skip 1531/1551 nm
- EXP express port for future services expansion via DWDM
- Separate TP -20 dB line monitoring taps (SC/APC) for Tx and Rx signal paths
- LC/APC, LC/UPC or NO connectors options for all other optical ports
- Epoxy-free on optical path for higher reliability
- Pigtailed are "B-series" color-coded and individually labeled



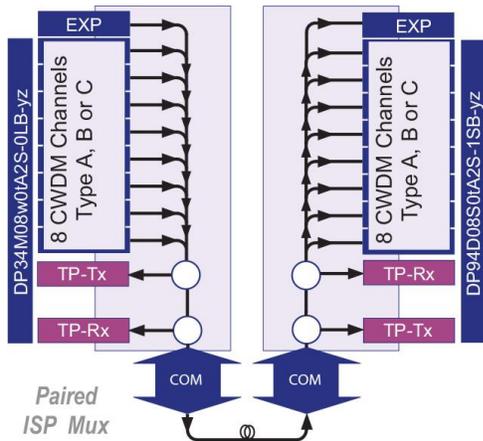
PRODUCT OVERVIEW

ARRIS's DP94D08S0t eight-channel CWDM optical demux cassette is intended for applications in non-controlled outdoor environments.

DP94D08S0t is designed to demultiplex 8 of 10 CWDM ITU-grid optical wavelengths, with individual wavelengths ranging from 1430 to 1610 nm, and 20 nm spacing between channels. Two separate -20 dB TP test ports monitor Tx path and Rx path signals.

It also has an EXP express port for future deployment of DWDM filters to accommodate the addition of DWDM ITU wavelengths for commercial services expansion into the “skipped” spectrum. There are three options for the 2 of 10 CWDM wavelengths which are “skipped”: Type A (skip 1551/1571 nm); Type B (1431/1451 nm); and Type C (skip 1531/1551 nm).

This ruggedized, anodized aluminum cassette has been designed for use in an OSP outside plant environment, with a temperature range of -40° to +85°C. All pigtail fibers are B-series color-coded and individually labeled to ensure proper installation and wavelength management.



FIBER PIGTAIL COLOR CODES		
Port	Fiber Color Codes	Color
COM		White
EXP		Black
TP Rx		Aqua
TP Tx		Rose
1431	Black Stripe	Green with Black Stripe
1451	Black Stripe	Yellow with Black Stripe
1471		Slate
1491		Violet
1511		Blue
1531		Green
1551		Yellow
1571		Orange
1591		Red
1611		Brown

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	3.5" L x 2.0" W x 0.3" H (8.9 cm x 5.1 cm x 0.8 cm)
Weight	0.8 lbs (0.36 kg)
Environmental	
Operating Temperature Range (outdoor)	-40° to +85°C (-40° to +185°F)
Storage Temperature Range	-40° to +85°C (-40° to +185°F)
Humidity	5% to 95% non-condensing
Optical Interface	
Optical ports	xxxx: 8 CWDM channel input ports (see Channel Passband) COM: Output to fiber network EXP: Express or bypass channel I/O from previous MUX TP Tx: Unidirectional -20 dB tap off COM from xxxx channels TP Rx: Unidirectional -20 dB tap off COM from fiber network
Optical Connectors	TP "Tx" and TP "Rx": SC/APC All other optical ports: LC/APC or no connector options
Fiber labels	COM fiber: RED label All other fibers: YELLOW labels

SPECIFICATIONS CONTINUED

Characteristics	Specification
Optical	
Channel Spacing	20 nm
Channel Passband	COM to xxxx: Center wavelength +/- 6.5 nm t = A: 1431, 1451, 1471, 1491, 1511, 1531, 1591, 1611 nm t = B: 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm t = C: 1431, 1451, 1471, 1491, 1511, 1571, 1591, 1611 nm COM to EXP: t = A: 1260-1421 nm; 1541-1581 nm; 1621-1635 nm t = B: 1260-1461 nm; 1621-1635 nm t = C: 1260-1421 nm; 1521-1561 nm; 1621-1635 nm
Insertion Loss, max (not including/including connectors)	COM to xxxx: 3.1/3.4 dB COM to EXP: 2.9/3.2 dB COM to TP: 2.0/2/0.4 dB Paired: 3.9/4.2 dB (from DP34M08 xxxx to DP94D08 xxxx)
Module Uniformity, max	2 dB
Paired Uniformity, max	1 dB
Return loss, min	45 dB
Polarization dependent loss, max	0.15 dB (< 0.1 dB typ)
Polarization mode dispersion, max	0.1 ps
Ripple within passband	0.15 dB
Adjacent channel isolation, min	35 dB
Non-adjacent channel isolation, min	45 dB
Directivity, min	xxxx CWDM port: 55 dB EXP Express port: 65 dB
Power handling, max (any port)	21.8 dBm

ORDERING INFORMATION

Part Number	Description
DP94D08S0tA2S-15B-yz	t = Type A, B, or C (A = skip 1551/1571; B = skip 1431/1451; C = skip 1531/1551) yz = Connector options (00 = NO connectors; AL = LC/APC; UL = LC/UPC)

RELATED PRODUCTS

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Customer Care

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Note: Specifications are subject to change without notice.

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