

# Optical Passives (OSP)

DP95M10/DP95D10 (C-Series)  
10-channel OSP DWDM Mux/Demux

## FEATURES

- 10-channel optical multiplexer and demultiplexer cassettes
- Temperature hardened ( $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ ) M-case Field Enclosures for OSP outside plant mounting in existing splice trays like Tyco FOOSC, etc.
- 100 GHz DWDM ITU channel spacing (ITU-T G694.1)
- UPG upgrade port for future services expansion via DWDM
- LC/APC, LC/UPC or NO connectors options
- Epoxy-free on optical path for higher reliability
- Pigtailed are "C-series" color-coded and individually labeled

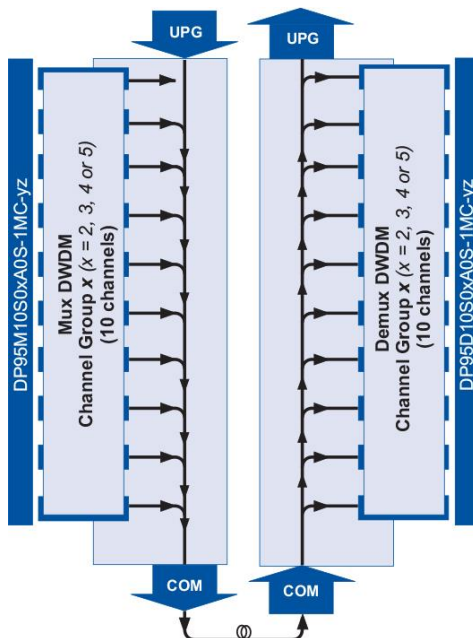


## PRODUCT OVERVIEW

ARRIS's DP95M10 and DP95D10 ten-channel DWDM optical mux and demux cassettes are intended for applications in non-controlled outdoor environments.

DP95M10 and DP95D10 are respectively designed to multiplex and demultiplex 10 DWDM wavelengths (ITU 20-29, 30-39, 40-49 or 50-59) with 100 GHz frequency spacing on the DWDM ITU Grid (ITU-T G.694.1). The DP95M10 and DP95D10 also have an UPG upgrade port for daisy-chain cascading of additional DWDM wavelengths.

These ruggedized, anodized aluminum cassettes have been designed for use in an OSP outside plant environment, with a temperature range of -40°C to +85°C, for mounting into existing splice trays, like the Tyco FOSC-series. All pigtail fibers are “C-series” color-coded and individually labeled to ensure proper installation and wavelength management.



## SPECIFICATIONS

Characteristics	Specification
<b>Physical</b>	
Dimensions	3.5" L x 1.63" W x 0.37" H (8.9 cm x 4.1 cm x 0.8 cm)
Weight	0.8 lbs (0.36 kg)
<b>Environmental</b>	
Operating Temperature Range (outdoor)	-40°C to +85°C (-40°F to +185°F)
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)
Humidity	5% to 95% non-condensing
<b>Optical Interface</b>	
Optical ports (MUX/DEMUX Input/Output)	ww: 10 DWDM channel I/O ports x: 10 channel ITU Groups x = 2 (ww = ITU 20 - 29) x = 4 (ww = ITU 40 - 49) x = 3 (ww = ITU 30 - 39) x = 5 (ww = ITU 50 - 59) COM: Output/Input to/from fiber network UPG: DP95M: Upgrade DWDM channel input from previous MUX DP95D: Upgrade DWDM channel output to next DEMUX
Optical Connectors	LC/APC, LC/UPC or NO connector options
Fiber labels	COM fiber: RED labels All other fibers: YELLOW labels

## RELATED PRODUCTS

Optical Transmitters	Optical Passives
Digital Return	Optical Patch Cords
Optical Nodes	Installation Services

## SPECIFICATIONS CONTINUED

Characteristics	Specification
<b>Optical</b>	
Channel Spacing	100 GHz grid (ITU-T G.694.1)
Channel Passband	COM to ww: Center wavelength +/- 0.125 nm COM to UPG: 1527.22 - 1564.68 nm. ITU channels 16 - 63
Insertion Loss, max (not including/including connectors)	COM to ww: 2.7/3.0 dB COM to UPG: 2.5/2.8 dB Paired: 3.9/4.2 dB (Paired IL is from DP95M10 input ww to DP95D10 output ww)
Module Uniformity, max	2 dB
Paired Uniformity, max	1 dB
Return loss, min	45 dB
Polarization dependent loss, max	0.25 dB
Ripple within passband	0.5 dB
Adjacent channel isolation, min	30 dB
Non-adjacent channel isolation, min	45 dB
Directivity, min	55 dB
Power handling, max (any port)	21.8 dBm

## FIBER PIGTAIL COLOR CODES

		Port	Fiber Color Codes	Color
		COM	Black Stripe	Blue with black stripe
		UPG	Black Stripe	Orange with black stripe
Channel Group / ITU				
2	3	4	5	
20	30	40	50	Blue
21	31	41	51	Orange
22	32	42	52	Green
23	33	43	53	Brown
24	34	44	54	Slate
25	35	45	55	White
26	36	46	56	Red
27	37	47	57	Black
28	38	48	58	Yellow
29	39	49	59	Violet

## ORDERING INFORMATION

Part Number	
DP95v10S0xA0S-1MC-yz	v = Module type (M = Mux; D = Demux) x = 10 channel DWDM ITU group (2, 3, 4 or 5, per above) yz = Connector options (00 = NO connectors; AL = LC/APC; UL = LC/UPC)

**Note:** Specifications are subject to change without notice.

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OSP-DP95M10/DP95D10