

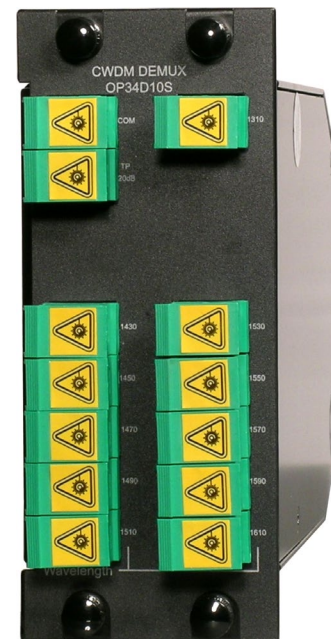
Optical Passives (ISP)

OP34D10S

10-channel CWDM Demultiplexer

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



PRODUCT OVERVIEW

ARRIS OP34D10S Series 10-channel CWDM Demultiplexers are designed to demultiplex 10 CWDM ITU-grid optical wavelengths from one fiber input, producing 10 individual wavelengths ranging from 1430 to 1610 nm (with 20 nm spacing between channels).



SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	6.5" D x 4.3" H x 2.0" W (3RU) (16.5 cm x 11 cm x 5.0 cm)
Weight	2.5 lbs (1.1 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)	
Return loss, min	45 dB
Passband for CWDM channels @ 0.15 dBc	13 nm
Passband for 1310 nm output (available only in OP34D10S-1)	1263.5–1357.5 nm
Adjacent channel isolation, min	35 dB
Non-adjacent channel isolation, min	45 dB
1310-COM isolation, min	60 dB
CWDM directivity, min	55 dB
1310 directivity, min	65 dB
Polarization dependent loss, max	0.15 dB (< 0.1 dB typ)
Ripple within passband	0.5 dB
Channel spacing	20 nm
Power handling, max (any input port)	21.8 dBm

SPECIFICATIONS (CONTINUED)

Characteristics	Specification
Optical Interface	
Optical connectors	SC/APC
Model OP34D10S-0-00-AS	<ul style="list-style-type: none"> • COM (input from fiber network) • Wavelength xxxx (10 channel drops for xxxx = 1430, 1450, 470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610 nm)
Model OP34D10S-1-00-AS	<ul style="list-style-type: none"> • COM (input from fiber network; I/O to/from fiber network for 1310) • 1310 (input/output to/from fiber network for 1310 nm) • Wavelength xxxx (10 channel drops for xxxx = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610 nm)
Model OP34D10S-0-99-AS	<ul style="list-style-type: none"> • COM (input from fiber network) • Wavelength xxxx (10 channel drops for xxxx = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610 nm) • TP -20 dB (1% tap, test point from COM)
Model OP34D10S-1-99-AS	<ul style="list-style-type: none"> • COM (input from fiber network; I/O to/from fiber network for 1310) • 1310 (input/output to/from fiber network for 1310 nm) • Wavelength xxxx (10 channel drops for xxxx = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610 nm) • TP -20 dB (1% tap, test point from COM)

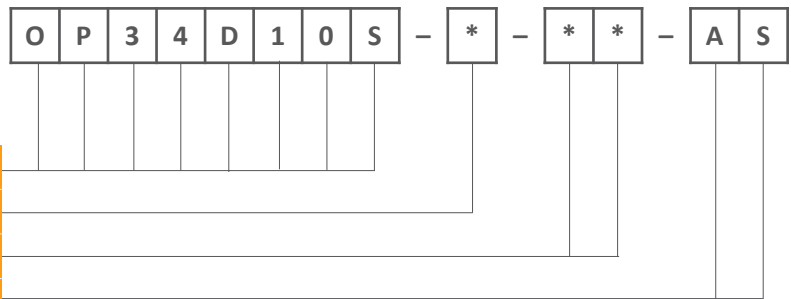
TABLE 1: INSERTION LOSS

	OP34D10S-0-00-AS	OP34D10S-1-00-AS	OP34D10S-0-99-AS	OP34D10S-1-99-AS
Insertion losses, max ¹ (dB)				
COM to Channel xxxx output	3.5	3.9	3.7	4.2
1310 to COM	N/A	1.1	N/A	1.3
Paired insertion loss ²	4.3	5.2	4.8	5.7
COM to -20 dB Tap Ratio, max ¹ (dB)	N/A	N/A	20.4	20.4

NOTES:

1. Including connectors
2. (Paired insertion loss when combined with 5-wavelength mux module from Ch. xxxx INP to Ch. xxxx OUT)

ORDERING INFORMATION



- 10-channel CWDM Demultiplexer
- * = 1310 nm I/O Port (0 = not present, 1 = present)
- ** = -20 dB Test Port (00 = not present, 99 = present)
- AS = SC/APC Connector

RELATED PRODUCTS

CH3000	OP94M10
OP34M10S	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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