

## **Optical Passives (ISP)**

OP34D8C, OP34D10C

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





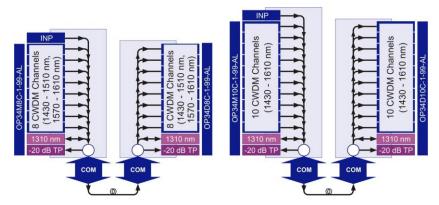
## PRODUCT OVERVIEW

ARRIS OPOP34D8C and OP34D10C 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 OP34D10C, and 8 of the same 10 wavelengths (excepting 1530 and 1550 nm) in the model OP34D8C. These CWDM demultiplexers feature high adjacent channel isolation and are suitable for bidirectional mux/demux applications.

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Optical Passives-OP34D8C/D10C





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

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)	-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/d	1264.5-1617.5 nm except for add/drop xxxx						
Return loss, min	45 dB	45 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							
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							
	OP34D8C-1-99-AL	OP34D10C-1-99-AL						
nsertion losses (including optical connectors), max <sup>1</sup> (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 OP34D8C-1-99-AL	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)							
	<ul> <li>Ch xxxx OUT (8 channels dropped for xxxx = 1430, 1450, 1470, 1490, 1510, 1570, 1590 and 1610 nm)</li> </ul>							
	• TP –20 dB (1% tap, test point fi	rom COM)						
Model OP34D10C-1-99-AL		·						
MINGGET OF 3-40-100-1-30-UF	<ul> <li>COM (input from network for CWDM; output to network for 1310)</li> <li>1310 (input/output to/from fiber network for 1310 nm)</li> </ul>							
	• 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																
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CWDM Demultiplexer																
** = number of channels (8 or 10)																
Reserved field																
1310 nm I/O Port present																
-20 dB Test Port present																
AL = LC/APC Connector																

RELATED PRODUCTS		

## **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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**Node Segmentation**