

# Optical Passives (ISP)

## NP34C01x

### CWDM/1310 Optical Filter

## FEATURES

- Single or dual filters in single-width, half-depth module
- Wide 1263–1357 and 1423–1617 passbands
- Excellent passband flatness ( $\pm 0.25$  dB typical)
- High directivity (55 dB min)
- $-20^{\circ}$  to  $+65^{\circ}\text{C}$  operating temperature range
- Telcordia GR-1209 and GR-1221 qualified
- Reliable, easy to maintain SC/APC connectors
- Optional bi-directional  $-20$  dB test point
- Optional COM port interface with 5 m pigtail/SC connector
- LGX compatible
- Replaces OP3401



## PRODUCT OVERVIEW

The ARRIS OP34C01x CWDM/1310 Optical Filter is a three-port filter that is used to combine (or separate) a 1310 nm wavelength with (or from) ten (10) CWDM optical wavelengths, where the ten wavelengths range from 1430 nm to 1610 nm on the CWDM ITU grid. The filter is packaged in an LGX compatible module and can be mounted in the ARRIS CH3000 chassis, occupying one half-depth slot. It is designed to be used in controlled indoor environments within a temperature range of  $-20$  to  $+65^{\circ}\text{C}$ .

The filter may also be used to combine (or separate) five 1270–1350 nm CWDM wavelengths with (or from) the ten 1430–1610 nm CWDM wavelengths.

## SPECIFICATIONS

Characteristics	Specification
<b>Physical</b>	
Dimensions	6.5" D x 4.3" H x 1.0" W (3RU) (16.5 cm x 11 cm x 2.5 cm)
Weight	1.6 lbs (0.72 kg)
<b>Environmental</b>	
Operating temperature range (indoor)	-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
<b>Optical Interface</b>	
Optical connectors	SC/APC
Mux input/output ports	<ul style="list-style-type: none"> <li>• COM (combined CWDM and 1310 nm input/output)</li> <li>• CWDM (input/output; CWDM channels from 1423.5 nm to 1617.5 nm)</li> <li>• 1310 (input/output for 1310 nm BC signal or 1263.5 to 1357.5 nm CWDM)</li> </ul>
<b>Optical</b>	
Passband @ 0.5 dB for 1310 port	1263.5–1357.5 nm
Passband @ 0.5 dB for CWDM port	1423.5–1617.5 nm
Ripple within passband, max	0.5 dB
Return loss, min	45 dB
Polarization dependent loss, max (typ)	0.1 (0.05) dB
Power handling, max (any input port)	21.8 dBm
Insertion losses, max (including connectors)	<ul style="list-style-type: none"> <li>• 1310 to COM: 1.0 dB</li> <li>• CWDM to COM: 0.6 dB</li> </ul>
Adjacent channel isolation, min	<ul style="list-style-type: none"> <li>• 1310 port: 60 dB</li> <li>• CWDM port: 18 dB</li> </ul>
Directivity, min	<ul style="list-style-type: none"> <li>• 1310 port: 65 dB</li> <li>• CWDM port: 55 dB</li> </ul>

## ORDERING INFORMATION

Model Name	Description
NP34C01w00AtS-OLA-AS	w = Packages per module (S = Single; 1-slot; D = Dual; 1-slot) t = Test port (0 = no test port; 1 = -20 dB test port)

## RELATED PRODUCTS

CH3000 Chassis	Optical Patch Cords
Optical Transmitters	Optical Passives
PF3000 Frame	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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