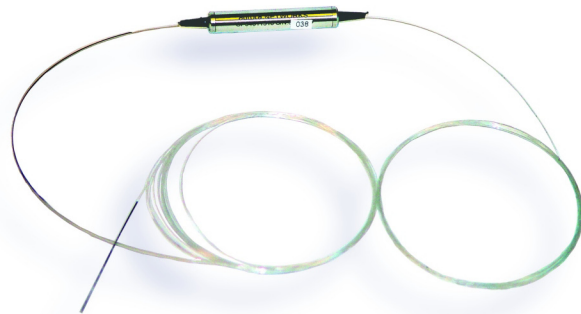


Features

- Flat and wide operating passband
- Unique design achieves high channel isolation to minimize crosstalk
- Low polarization dependent loss (PDL)
- Combine or split 1310 nm and CWDM-band channels
- Telcordia GR-1209 and GR-1221 qualified, providing excellent environmental and mechanical stability
- Variety of options for module body robustness, fiber buffer and connector types
- Epoxy-free on optical path

CWDM/1310 Optical Filter



NO (non-ruggedized) packaging option shown above

The Aurora Networks OP9401 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 available in three versions of packaging for outdoor use, two versions ruggedized for easy handling and the third version, though not ruggedized, being smaller and easier to fit in a splice enclosure. All versions are designed for use in an outdoor environment within a temperature range of -40° to +85°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.

OP9401

Product Specifications

Physical:

- Dimensions: (See Ordering Information.)
- Weight: 0.2 lbs (0.09 kg)

Environmental:

- Operating temperature range: -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 connectors: (See Ordering Information.)
- Mux input / output ports:
 - COM (combined CWDM and 1310 nm input/output)
 - CWDM (input/output; CWDM channels from 1423.5 nm to 1617.5 nm)
 - 1310 (input/output from 1263.5 nm to 1357.5 nm)

Optical:

- Passband @ 0.5 dB for 1310: 1263.5 – 1357.5 nm
- Passband @ 0.5 dB for CWDM: 1423.5 – 1617.5 nm
- Ripple within passband: 0.5 dB
- Return loss, min: 45 dB
- Polarization dependent loss, max: 0.1 dB (<0.05 dB typ)
- Power handling, max (any input port): 21.8 dBm
- Insertion losses, max:

	with connector	without connector
1310 to COM:	1.4 dB	1.2 dB
CWDM to COM:	1.1 dB	0.9 dB

- Adjacent channel isolation, min:
 - 1310: 60 dB
 - CWDM: 18 dB
- Directivity, min:
 - 1310: 65 dB
 - CWDM: 55 dB

Package Options:

Two examples are shown below approximately full scale, while the “S-case” option (with SC/APC connectors) is shown below at right approximately half scale.

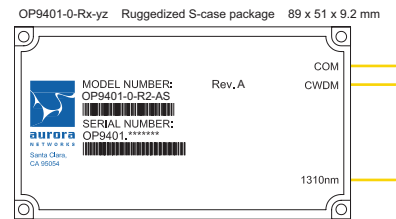
For non-ruggedized tubes, the fiber optic leads are color-coded as shown.



OP9401-0-R2-00 CWDM/1310 Optical Filter in Ruggedized Package (8.5 mm x 14 mm x 98 mm)



OP9401-0-N0-00 CWDM/1310 Optical Filter in Non-ruggedized Tube (34 mm x 5.5 mm)



OP9401-0-R2-AS CWDM/1310 Optical Filter in “S-case” Ruggedized Package (9.2 mm x 51 mm x 89 mm), (shown above approximately half-scale)

Ordering Information

OP9401-0-**-**-**

CWDM/1310 Filter

*** = Packaging, Fiber and Connector Type

- N0-00 = 250 μm bare fiber in 34 x 5.5 mm Non-ruggedized Tube,
- R2-00 = 2 mm fiber in 8.5 x 14 x 98 mm Ruggedized Package
- R2-AS = 2 mm fiber with SC/APC Connectors in 9.2 x 51 x 89 mm Ruggedized Package

Note: Fiber length for all models is 1±0.15 meters; other lengths are available upon request.



Corporate Headquarters
 5400 Betsy Ross Drive
 Santa Clara, CA 95054
 Tel 408.235.7000
 Fax 408.845.9045