

Features

- Single or dual filters in single-width, half-depth module
- Wide 1263–1357 and 1423–1617 passbands
- Excellent passband flatness (± 0.25 dB typical)
- High directivity (55 dB min)
- -20° 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 5m pigtail / SC connector
- LGX compatible

CWDM/1310 Optical Filter



The Aurora Networks OP3401x 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 Aurora Networks 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.

OP3401x

Product Specifications

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: 1.6 lbs (0.72 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

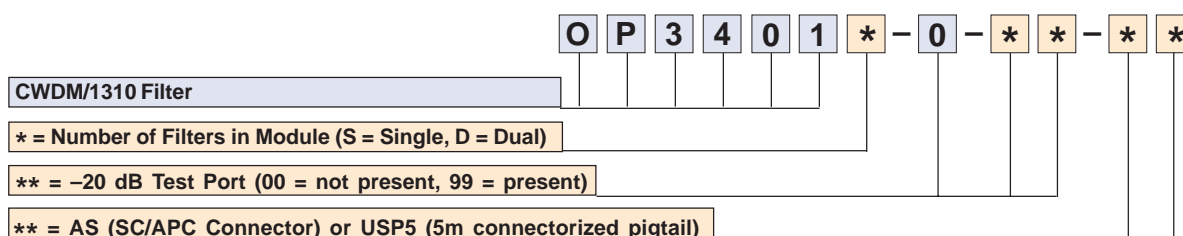
Optical Interface:

- Optical connectors: SC/APC
- 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 for 1310 nm BC signal or 1263.5 to 1357.5 nm CWDM)

Optical:

- 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: 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 (including connectors):
1310 to COM: 1.0 dB
CWDM to COM: 0.6 dB
- Adjacent channel isolation, min:
1310 port: 60 dB
CWDM port: 18 dB
- Directivity, min:
1310 port: 65 dB
CWDM port: 55 dB

Ordering Information



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