

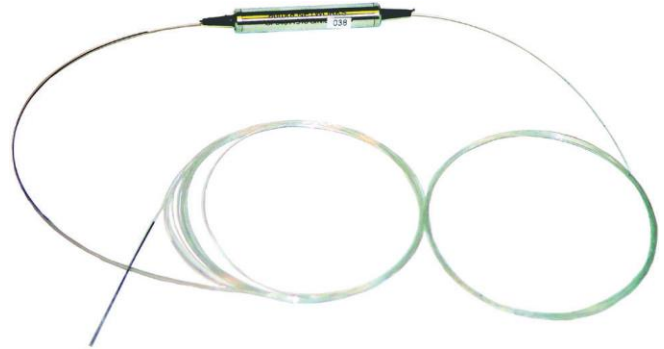
Optical Passives (OSP)

OP9401

CWDM/1310 Optical Filter

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



PRODUCT OVERVIEW

The ARRIS 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.

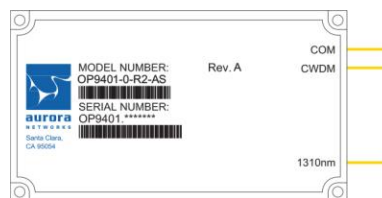
The filter may also be used to combine (or separate) five 1270–1350 nm CWDM wavelengths with (or from) the ten 1430–1610 nm CWDM wavelengths.

SPECIFICATIONS

Characteristics	Specification	
Physical		
Dimensions	See <i>Ordering Information</i>	
Weight	0.2 lbs (0.09 kg)	
Environmental		
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)	
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)	
Humidity	5% to 95% non-condensing	
Optical Interface		
Optical connectors	See <i>Ordering Information</i>	
Mux input/output ports	<ul style="list-style-type: none"> 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, max	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 nm to COM	1.4 dB	1.2 dB
CWDM to COM	1.1 dB	0.9 dB
Adjacent channel isolation, min		
1310 nm	60 dB	
CWDM	18 dB	
Directivity, min		
1310 nm	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 a approximately half scale. For non-ruggedized tubes, the fiber optic leads are color-coded as shown.



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)

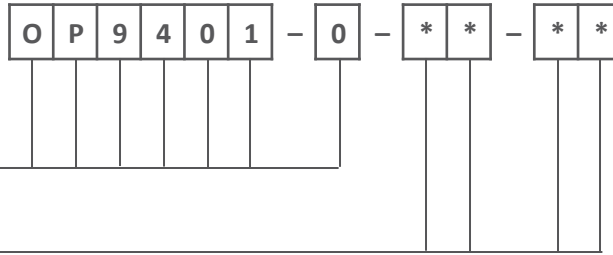


OP9401-0-R2-00 CWDM/1310 Optical Filter in Ruggedized Package (8.5 mm x 14 mm x 98 mm)



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

ORDERING INFORMATION



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.

RELATED PRODUCTS

Optical Transmitters	Optical Passives
Digital Return	Optical Patch Cords
Optical Nodes	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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