

Optical Passives (ISP)

OP3401x

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 (± 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



PRODUCT OVERVIEW

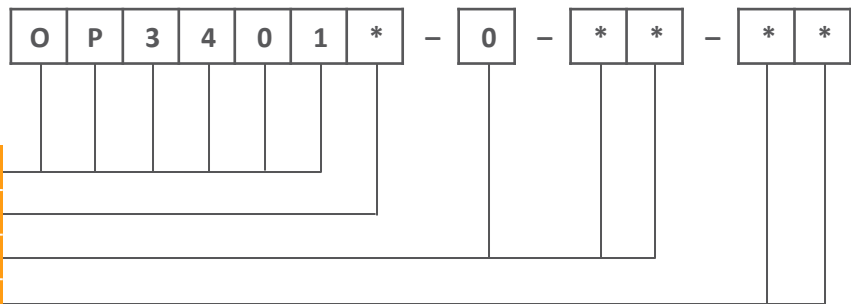
The ARRIS OP3401x CWDM/1310 Optical Filter is a three-port filter that is used to combine (or separate) a 1310 nm wavelength with (or from) ten (10) CWDM optical wavelengths, where the ten wavelengths range from 1430 nm to 1610 nm on the CWDM ITU grid. The filter is packaged in an LGX compatible module and can be mounted in the 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
Physical	
Dimensions	6.5" D x 4.3" H x 1.0" W (3RU) (17 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	<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 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, 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 (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



- CWDM/1310 Filter
- * = Number of Filters in Module (S = Single, D = Dual)
- ** = -20 dB Test Port (00 = not present, 99 = present)
- ** = AS (SC/APC Connector) or USP5 (5m connectorized pigtail)

RELATED PRODUCTS

CH3000 Chassis	Optical Patch Cords
Optical Transmitters	Optical Passives
HPON™	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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