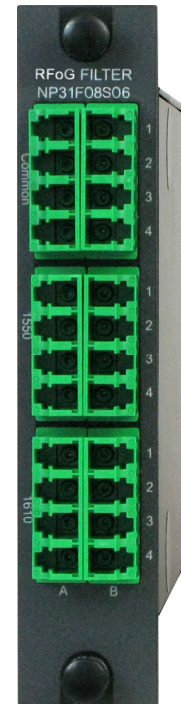


# Optical Passives (ISP)

## NP31F08S06 Octal RFoG Filter

### FEATURES

- Enables deployments of RFoG applications when used with AR3044H receivers
- Eight RFoG filters in a single high-density module
- One module supports two AR3044H analog quad receiver modules
- 3-port filters combine or separate 1550 nm forward Broadcast signals from 1610 RFoG return  $\lambda$ 's
- LC/APC connectors provide high density and performance
- Low insertion loss
- Totally passive module
- Simplifies RFoG installation and reduces rack space requirements
- Occupies one half-depth slot in CH3000 chassis



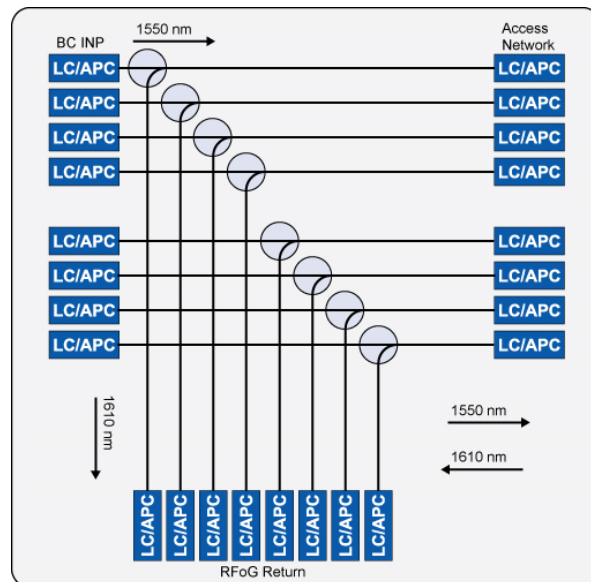
### PRODUCT OVERVIEW

The ARRIS NP31F08S06 Octal RFoG diplex filter module provides eight 3-port combiner/separators that combine (or separate) 1550 nm forward signal inputs from 1610 nm RFoG return wavelengths. The module is designed to complement two AR3044H RFoG Analog Quad Return Receiver modules to readily support up to eight RFoG optical network segments.

High density packaging enables network operators to install up to nine “groups” (each comprising a single NP31F08S06 Filter side-by-side with two AR3044H modules) in a single 3RU chassis, and thus providing support for up to 56 RFoG network segments per chassis. Assuming 32 CPEs per network segment, a single chassis can thus support deployments to almost 1,800 residences.

The filter is packaged in an LGX compatible module and can be mounted in the CH3000 chassis, occupying one half-depth slot. The compact design minimizes rack space requirements in headends or hubs and enhances deployment of fiber-to-the-home (FTTH) networks. Additionally, the compact single-width module design can be plugged in either the front or rear of the CH3000 3RU chassis to optimize equipment installation and operating conditions. It is designed to be used in controlled indoor environments within a temperature range of -20° to +65°C.

SPECIFICATIONS	
Characteristics	Specification
<b>Physical</b>	
Dimensions	6.6" D x 4.3" H x 1.0" W (3RU) (16.7 cm x 11 cm x 2.5 cm)
Weight	1.5 lbs (0.68 kg)
<b>Environmental</b>	
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
<b>Optical Interface</b>	
BC INP to Access Network (Downstream)	<ul style="list-style-type: none"> <li>• Passband: 1525–1590 nm</li> <li>• Insertion Loss (Including Connectors), max: 1.0 dB</li> <li>• Isolation of 1550 nm to 1610 nm, min: 55 dB</li> </ul>
Access Network to O/E (Upstream)	<ul style="list-style-type: none"> <li>• Passband: 1600–1620 nm</li> <li>• Insertion loss (Including Connectors), max: 0.9 dB</li> <li>• Isolation of 1610 nm to 1550 port, min: 15 dB</li> </ul>
Return Loss, min	45 dB
Power Handling, max (Any Input Port)	21.8 dBm
<b>Connectors</b>	
Total 24 LC/APC connectors	<ul style="list-style-type: none"> <li>• 8 Common for Access Network (ports A1-A4 and B1-B4)</li> <li>• 8 1550 (for BC ports A1-A4 and B1-B4)</li> <li>• 8 1610 (for RFoG Upstream, ports A1-A4 and B1-B4)</li> </ul>



## ORDERING INFORMATION

Model Name	Description
NP31F08S06A0S-0LA-AL	8 RFOG filters in a single-width LGX passive module for CH3000. 24 LC/APC connectors used for (8) 1550 nm RFOG downstream ports, (8) 1610 nm upstream ports and (8) access network inputs/outputs.

## RELATED PRODUCTS

CH3000 Chassis	Optical Patch Cords
Optical Return Receivers	Optical Passives
RFOG	Installation Services
AR3044H-0-AL	

## 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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ISP-NP31