

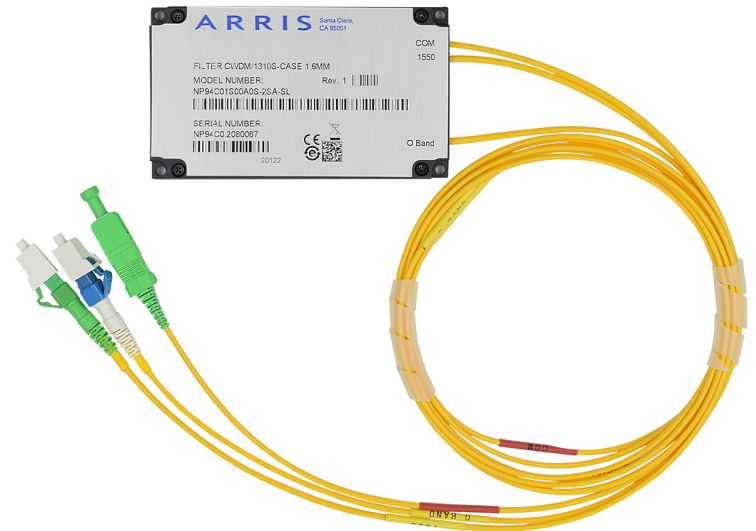
# Optical Passives (OSP)

## NP94C01

### CWDM/1310 Optical Filter

## FEATURES

- Integrated 3-port filter to combine or separate wavelength bands
- Combine or split 1310 nm (O-band) and CWDM-band (1550 nm) channels
- Wide 1263.5–1357.5 nm and 1423.5–1617.5 nm passbands
- Low insertion loss; High isolation
- Operating temperature range -40° to +85°C
- Telcordia GR-1209 and GR-1221 qualified, providing excellent environmental and mechanical stability
- Epoxy-free on optical path
- Compatible with NP34C16



## PRODUCT OVERVIEW

The ARRIS NP94C01 combiner/separator filter is an integrated 3-port filter that combines (or separates) the 1260–1360 nm O-band with/from the 1430–1610 nm CWDM-band channels. There is an SC/APC connector on COM port, LC/APC connectors on the 1550 port, and LC/UPC connectors on the O-band port.

This filter is designed for use in an outdoor environment within a temperature range of -40° to +85°C.

## SPECIFICATIONS

Characteristics	Specification	
<b>Physical</b>		
Dimensions	8 x 51 x 89 mm	
Weight, Ruggedized Packages	0.8 lbs (0.4 kg)	
<b>Environmental</b>		
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	
<b>Optical</b>		
	<b>O-band</b>	<b>1550</b>
Passbands (nm) @ 0.15 dB	1263.5–1357.5 (O-band)	1423.5–1617.5 (CWDM)
Insertion Losses, max (typical) (dB), y = 0 including connectors	1.0	0.6 (z = S); 0.9 (z = H)
Isolation, min (dB)	60	18 (z = S); 36 (z = H)
Ripple within Passband, max (dB)	0.15	
Power Handling, max (any input port) (dBm)	24.8	
Directivity, min (dB)	55	
Return Loss, min (dB)	45	
Polarization Dependent Loss, max (typ), dB	0.15 (0.1)	

## ORDERING INFORMATION

Model Name	Description
NP94C01w00Ayz-2SA-SL	w = S; y = 0; z = S (Standard isolation); H (High isolation) SL = (COM = SC/APC; 1550 = LC/APC; O-band = LC/UPC)

## 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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