

Optical Passives (OSP)

NP95F01S

Single-channel DWDM Optical Filter

FEATURES

- Low insertion loss
- Operating temperature range -40° to +85°C
- Selection of supported narrowcast channels on standard 100 GHz DWDM ITU Grid
- High channel isolation to minimize crosstalk
- Telcordia GR-1209 and GR-1221 qualified, providing excellent environmental and mechanical stability
- Variety of options for module package size, fiber jacket, and connector types
- Epoxy-free on optical path



PRODUCT OVERVIEW

ARRIS's NP95F01S series Single-channel DWDM Optical Filters have been designed with low insertion and polarization dependent losses. These three-port filters are used to add (or drop) a single DWDM narrowcast wavelength to (or from) a set of DWDM optical wavelengths.

The filters are available in two versions of packaging for outdoor use, one version ruggedized for easy handling and the second version, though not ruggedized, is smaller and easier to fit in a splice enclosure. Both versions are designed for use in an outdoor environment within a temperature range of -40° to $+85^{\circ}$ C.

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Ask us about the complete Access Technologies Solutions portfolio:

OSP-NP95F01S



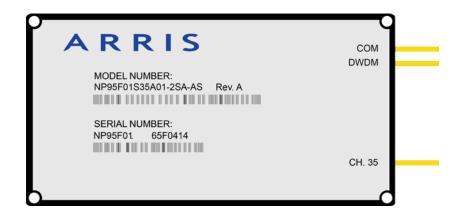
Characteristics	Specification				
	Specification				
Physical Dimensions	See Ordering Information				
Weight, ruggedized packages	0.2 lbs (0.9 kg)				
Environmental	0.2 ibs (0.5 kg)				
Operating Temperature Range	-40° to +85°C (-40° to +18	5°F)			
Storage Temperature Range	-40° to +85°C (-40° to +185°F)				
Humidity	5% to 95% non-condensing				
Optical Interface		>			
Mux input/output ports	Function as MUX DWDM		Function as DEMUX DWDM passthrough output xx drop/output channel input from fiber network		
	As MUX: Output to fiber	network			
	As DEMUX: Input from fiber network				
	COM	↔		dd / input channel	
	As MUX: DWDM pass-through input As DEMUX: xx drop / output channel As DEMUX: DWDM pass-through output				
Optical					
Insertion losses (including connectors), dB		typical	max		
	DWDM I/O to COM: CH W	0.4		0.5 0.8	
Channel nesshand @ 0 E dDs nm	• CH. xx I/O to COM:	0.6		0.8	
Channel passband @ 0.5 dBc, nm Passband of DWDM passthrough port, nm	± 0.125 1423.5 – 1617.5 (with a notch at the channel passband)				
	55				
Directivity, min, dB	45				
Return loss, min, dB					
Polarization dependent loss, max (typ), dB	0.1 (0.05)				
Non-adjacent channel isolation, min, dB	45				
Power handling, max (any input port), dBm	21.8				
Channel spacing, GHz	100				
Ripple within passband, max, dB	NP95F01SxxA01's and NP9	95F01SxxA02's	NP95F01Sxx	A0S's	
	0.2		0.5		
Adjacent channel isolation, min, dB	25		30		
TU Channel Plans					
	ARRIS supports DWDM network architectures with a variety of products having 100 GHz center frequen spacing on the standard DWDM ITU Grid (ITU-T G.694.1) for 40 channels from Channel 20 (1561.42 nm) Channel 59 (1530.33 nm).				
	convenient logical groups of	For more complete description of available DWDM ITU Grid channels and ARRIS's partitioning into convenient logical groups of 4, 8, and 16 channels in products for DWDM mux and demux applications, please refer to the ARRIS DWDM ITU Grid Channel Plan Data Sheet.			
	See Ordering Information section for available ITU channels. When ordering Single-channel DWDM Optical Filters, please note, for network planning purposes, that AT3550 "BC" series broadcast transmitters operate at 1545.3 nm \pm 0.9 nm, occupying the approximate region of DWDM ITU Grid channels 39 through 41; as a result no channel within ARRIS's ITU Channel Pla Groups N or P (channels 36 through 43) should be used as a narrowcast channel.				

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PACKAGE OPTIONS

For non-ruggedized tubes, the fiber optic leads are color-coded as shown.



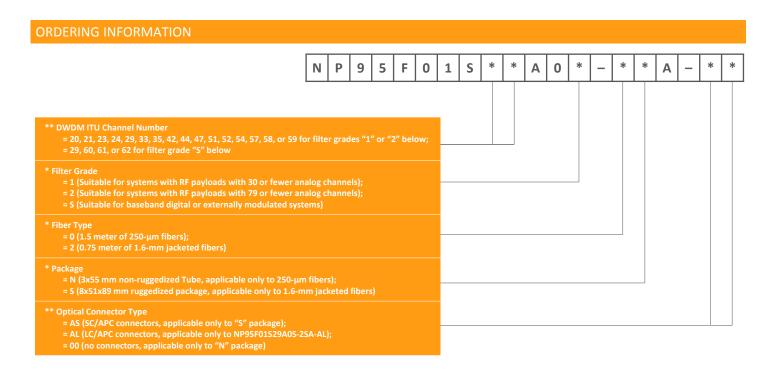
NP95F01S35A01-2SA-AS Single-channel Filter in Ruggedized "S" Package with SC/APC Connectors



NP95F01S29A01-0NA-00 Single-channel Filter in Non-ruggedized Tube

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Customer Care

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Note: Specifications are subject to change without notice.

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