

Optical Passives (ISP)

NP35F01

Single-channel DWDM Optical Filter

FEATURES

- Low insertion loss
- Selection of supported narrowcast channels on standard 100 GHz DWDM ITU Grid
- High channel isolation to minimize crosstalk
- SC/APC connectors ensure performance repeatability, compatibility and easy installation and maintenance
- Removable adapters for easy cleaning
- Occupies one half-depth slot
- LGX chassis-compatible for ISP inside plant controlled indoor environments
- · Telcordia GR-1209 and GR-1221 qualified
- Replaces OP35F1.

Fiber-Deep



PRODUCT OVERVIEW

The ARRIS NP35F01 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.

In addition to packages containing a single filter, dual-filter packages are also available in which the same narrowcast wavelength may be added to (or dropped from) two independent sets of DWDM optical wavelengths.

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 $+65^{\circ}$ C.

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Characteristics	Specification			
Physical				
Dimensions	6.5" D x 4.3" H x 1.0" W (3RU) (16.5 cm x 11 cm x 2.5 cm)			
Weight	1.5 lbs (0.68 kg)			
Environmental	110 100 (0100 11g)			
Operating Temperature Range	-20°C to +65°C (-	-4°F to +149°F)		
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)			
Humidity	5% to 95% non-condensing			
Optical Interface	3,0 00 33,0 1.0.1 0.			
Optical connectors	SC/APC			
Mux input/output ports	39,1	Function as MUX	Function as DEMUX	
	Ch. xx I/O	xx add/input channel group	xx drop/input channel group	
	COM	output to fiber network	input from fiber network	
	DWDM	DWDM pass-through input	DWDM pass-through output	
		As MUX: Output to fiber network As DEMUX: Input from fiber network		
		WDM	Ch xx	
	As MUX: DWD		xx add / input channel JX: xx drop / output channel	
Optical	AS BEINOX. DV	vom pass-unough output		
Insertion losses, including connectors, max (typ)				
CH. xx I/O to COM	0.95 (0.75) dB	0.95 (0.75) dB		
DWDM I/O to COM	, ,	0.70 (0.50) dB		
Passband @ 0.5 dB	± 0.25 nm	· ·		
Ripple within passband, max	0.5 dB			
Directivity, min	55 dB			
Return loss, min	45 dB			
Polarization dependent loss, max	0.1 dB (< 0.05 dB typ)			
Adjacent channel isolation, min	35 dB			
Non-adjacent channel isolation, min	45 dB			
DWDM isolation, min	13 dB			
Power handling, max (any input port)	21.8 dBm			
. , , , , ,				
Channel spacing		100 GHz		
Wavelength passthrough	Only 1425–1617	Only 1425–1617 nm (input and output)		
ITU Channel Plans				
	spacing on the st Channel 59 (1530 ARRIS's partitioni demux applicatio	ARRIS supports DWDM network architectures with a variety of products having 100 GHz center frequency spacing on the standard DWDM ITU Grid (ITU-T G.694.1) for 40 channels from Channel 20 (1561.42 nm) to Channel 59 (1530.334 nm). 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. When ordering Single-channel DWDM Optical Filters, please note, for network planning purposes, that		
	AT3550 "BC" seri region of DWDM "Group P" (chanr broadcast transm	es broadcast transmitters operate at 1545.3 ITU Grid channels 39 through 41; as a result nels 40 through 43) should be used as the nar nitters operate at 1563 nm, occupying the ap s a result no channel within ARRIS's "Group H	nm ± 0.9 nm, occupying the approximate no channel within ARRIS's ITU Channel Plan rowcast channel. Similarly, AT3550 "BA" seri proximate region of DWDM ITU Grid channe	



* = Number of Filters in Module (S = Single, D = Dual) ** = DWDM ITU Grid Channel Number (20, 21, 22, 23, ... or 59) (Reference ARRIS DWDM ITU Grid Channel Plan Data Sheet)

RELATED PRODUCTS	
CH3000 Chassis	Optical Patch Cords
Optical Transmitters	Optical Passives
PF3000	Installation Services

Customer Care

Contact Customer Care for product information and sales:

United States: 866-36-ARRIS

• International: +1-678-473-5656

 $\textbf{Note:} \ \mathsf{Specifications} \ \mathsf{are} \ \mathsf{subject} \ \mathsf{to} \ \mathsf{change} \ \mathsf{without} \ \mathsf{notice}.$

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