

Optical Passives (OSP)

OP95F4S

4-channel DWDM Optical Filter

FEATURES

- Add or drop a group of four wavelengths on the 100 GHz DWDM ITU Grid
- Low insertion loss
- Operating temperature range –40°C to +85°C
- 4-skip-0 filter

Fiber-Deep

- 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 OP95F4S series 4-channel DWDM Optical Filters have been designed with low insertion. These three-port filters are used to add (or drop) a group of four DWDM narrowcast wavelengths to (or from) a set of DWDM optical wavelengths. Two models are available, with channel group N used to add or drop channels 36 through 39, and channel group U used to add or drop channels 56 through 59.

The filters are available in three versions of packaging for outdoor use, one version ruggedized for easy handling and the second version, though not ruggedized, being 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°C.

Ask us about the complete Access Technologies Solutions portfolio:



Characteristics	Specification	
Physical	, 400 000	
Dimensions	See Ordering Information	
Weight, ruggedized packages	0.2 lbs (0.9 kg)	
Environmental		
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)	
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)	
Humidity	5% to 95% non-condensing	
Optical Interface		
Mux input/output ports	Function as MUX Function as DEMUX • DWDM DWDM pass-through input DWDM pass-through output • x I/O	
	As MUX: Output to fiber network As DEMUX: Input from fiber network COM DWDM As MUX: DWDM pass-through input As DEMUX: DWDM pass-through output As DEMUX: DWDM pass-through output	
Optical		
Insertion losses (without connectors)	typical max	
DWDM I/O to COM Group x I/O to COM	0.3 dB 0.4 dB 0.5 dB 0.7 dB	
Passband @ 0.15 dB x to COM DWDM to COM	2.6 nm; Passes Channel Group N (36-39) or U (56-59) Passes 1423.5 nm through 1617.5 nm with a notch at the Channel Group add/drop band.	
Directivity, min	50 dB	
Return loss, min	45 dB	
Polarization dependent loss, max	0.1 dB (< 0.05 dB typ)	
Adjacent channel isolation, min	25 dB	
Non-adjacent channel isolation, min	45 dB	
Power handling, max (any input port)	21.8 dBm	
Channel groups	N (DWDM ITU channels 36-39) U (DWDM ITU channels 56-59)	
TU Channel Plans		
	ARRIS supports DWDM network architectures with a variety of products having 100 GHz center frequent 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).	
	For more complete description of available DWDM ITU Grid channels and ARRIS's partitioning into convenient logical groups, please refer to the ARRIS DWDM ITU Grid Channel Plan data sheet.	
	Convenient logical groups, please refer to the Akkis DWDW 110 drid chainler Flan data sheet.	

FTTx



PACKAGE OPTIONS

Three examples are shown below (two approximately full scale). For non-ruggedized tubes, the fiber optic leads are color-coded as shown.



OP95F4S-U-R2-AS 4-channel Filter for DWDM Channel Group U in Ruggedized Package with SC/APC Connectors (image reduced approximately 50%)



OP95F4S-U-R2-00 4-channel Filter for DWDM Channel Group U in Ruggedized Package



OP95F4S-U-N0-00 4-channel Filter for DWDM Channel Group U in Non-ruggedized Tube



ORDERING INFORMATION 4 S - * - * * -* = DWDM ITU Grid Channel Group (N or U) (Reference ARRIS DWDM ITU Grid Channel Plan Data Sheet) Ruggedized Package, R2-AS = 1 m pigtails of 2 mm fiber in 9.2x51x89 mm Ruggedized Package with SC/APC connectors

RELATED PRODUCTS	
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Note: Specifications are subject to change without notice.

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