

Optical Passives (OSP)

NP95F04S

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° to +85°C
- 4-skip-0 filter
- 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 NP95F04S 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. These devices support groups of four wavelengths between ITU channels 20 and 59, inclusive.

The filters are designed for use in an outdoor environment within a temperature range of –40° to +85°C.

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FTTx

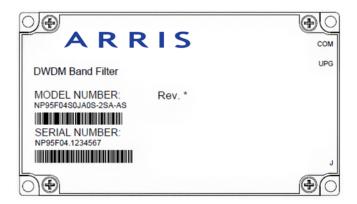




SPECIFICATIONS		
Characteristics	Specification	
Physical	·	
Dimensions	See Ordering Information.	
Weight, ruggedized packages	0.2 lbs (0.9 kg)	
Environmental		
Operating Temperature Range	-40° to +85°C (-40° to +185°F)	
Storage Temperature Range	-40° to +85°C (-40° to +185°F)	
Humidity	5% to 95% non-condensing	
Optical Interface		
Mux input/output ports	 UPG: DWDM passthrough for all channels not being added or dropped by the device CHANNEL GROUP: Group of 4 ITU channels being added or dropped by the device COM: Port for connecting to the main fiber network 	
Optical		
Insertion losses (without connectors) UPG to COM CHANNEL GROUP to COM	Typical Max 0.2 dB 0.3 dB 0.4 dB 0.6 dB	
Insertion losses (with connectors) UPG to COM CHANNEL GROUP to COM	Typical Max 0.4 dB 0.5 dB 0.6 dB 0.8 dB	
Passband @ 0.15 dB UPG to COM CHANNEL GROUP to COM	Passes 1423.5 nm through 1617.5 nm with a notch at the Channel Group add/drop band. 2.6 nm	
Directivity, min	50 dB	
Return loss, min	45 dB	
Polarization dependent loss, max	0.07 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	
ITU Channel Plans		
Supported channel groups	See Ordering Information.	
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PACKAGE OPTIONS



NP95F04S0JA0S-2SA-AS in ruggedized "S" package (8x51x89-mm flatbox) with 1.6-mm fibers



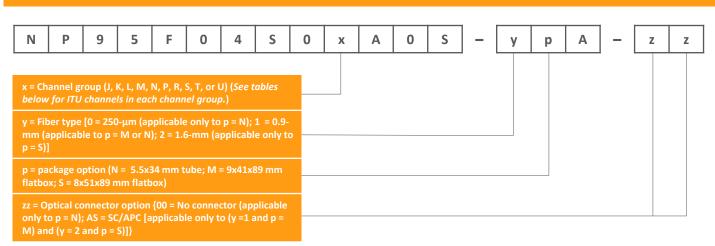
NP95F04S0JA0S-1MA-AS in ruggedized "M" package (9x41x89-mm flatbox) with 900-μm fibers



NP95F04S0JA0S-0NA or NP95F04S0JA0S-1NA in non-ruggedized 5.5x34-mm tube with either 250-μm or 900-μm fibers, respectively



ORDERING INFORMATION



Channel Group	ITU Channel #	Wavelength (nm)	Optical frequency (THz)
ı	20	1561.419	192.0
	21	1560.606	192.1
	22	1559.794	192.2
	23	1558.983	192.3
К	24	1558.173	192.4
	25	1557.363	192.5
	26	1556.555	192.6
	27	1555.747	192.7
L	28	1554.940	192.8
	29	1554.134	192.9
	30	1553.329	193.0
	31	1552.524	193.1
М	32	1551.721	193.2
	33	1550.918	193.3
	34	1550.116	193.4
	35	1549.315	193.5
N	36	1548.515	193.6
	37	1547.715	193.7
	38	1546.917	193.8
	39	1546.119	193.9

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Channel Group	ITU Channel #	Wavelength (nm)	Optical frequency (THz)
P	40	1545.322	194.0
	41	1544.526	194.1
	42	1543.730	194.2
	43	1542.936	194.3
R	44	1542.142	194.4
	45	1541.349	194.5
	46	1540.557	194.6
	47	1539.766	194.7
S	48	1538.976	194.8
	49	1538.186	194.9
	50	1537.397	195.0
	51	1536.609	195.1
т	52	1535.822	195.2
	53	1535.036	195.3
	54	1534.250	195.4
	55	1533.465	195.5
U	56	1532.681	195.6
	57	1531.898	195.7
	58	1531.116	195.8
	59	1530.334	195.9

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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