

Optical Passives (ISP)

NP33F01

Single-channel LcWDM™ Optical Filter

FEATURES

- Low insertion loss
- Selection of supported LcWDM channels
- Cascade port for daisy-chaining
- SC/APC connectors ensure performance repeatability, compatibility and easy installation and maintenance
- Removable adapters for easy cleaning
- Occupies one half-depth slot
- Telcordia GR-1209 and GR-1221 qualified
- LGX chassis-compatible
- Replaces OP33F1




PRODUCT OVERVIEW

ARRIS NP33F01 series Single-channel LcWDM Optical Filters have been designed with low insertion and polarization dependent losses. These three-port filters are used to add (or drop) a single LcWDM narrowcast wavelength to (or from) a set of LcWDM 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 LcWDM 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°C.

SPECIFICATIONS			
Characteristics	Specification		
Physical			
Dimensions	6.5" D x 5.2" H x 1.0" W (3RU) (16.5 cm x 13.2 cm x 2.5 cm)		
Weight	0.8 lbs (0.4 kg)		
Environmental			
Operating temperature range (indoor)	-20° to +65°C (-4° to +149°F)		
Storage temperature range	-40° to +85°C (-40° to +185°F)		
Humidity	5% to 95% non-condensing		
Optical Interface			
Optical connectors	SC/APC		
Mux input/output ports		Function as MUX	Function as DEMUX
	Ch xx I/O	xx add/input channel	xx drop/output channel
	COM	output to fiber network	input from fiber network
	LcWDM	pass-through input	pass-through output
<p>As MUX: Output to fiber network As DEMUX: Input from fiber network</p>  <p>As MUX: LcWDM pass-through input As DEMUX: LcWDM pass-through output</p>			
Optical			
Wavelength pass-through (input or output)	1265–1357 nm		
LcWDM channels	AA, BB, KK, LL, MM, NN, RR, SS, TT or UU (Note: Channels AA and BB cannot be combined with channels KK through UU in an LcWDM environment)		
Insertion losses, including connectors	LcWDM I/O to COM	typical	max
	CH. xx I/O to COM	0.4 dB	0.5 dB
		0.6 dB	1.0 dB
Directivity, min	50 dB		
Return loss, min	45 dB		
Polarization dependent loss, max	0.15 dB (< 0.1 dB typ)		
Power handling, max (any input port)	21.8 dBm		

ORDERING INFORMATION

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** = LcWDM Channel Designator (AA, BB, KK, LL, MM, NN, RR, SS, TT or UU) (See tables below.)

Channel Designator	Wavelength (nm)	Frequency (THz)
AA	1307.930	229.20
BB	1304.560	229.80
KK	1317.769	227.50
LL	1320.090	227.10
MM	1321.254	226.90
NN	1323.003	226.60
RR	1325.050	226.25
SS	1327.690	225.80
TT	1329.162	225.55
UU	1333.596	224.80

RELATED PRODUCTS

CH3000 chassis	PF3000
AT33xx	

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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