

# push-on filter - freja

## Freja Push-on filters

The Freja push-on passive filter satisfies the demands made by modern CATV household installations where passive filtering of TV, FM and DATA signals is required.



Type	Freja POF 1-4
Item no.	42108
Version	Diplex
<b>DATA</b>	
Frequency forward (MHz)	118-1000
Frequency reverse (MHz)	5-65
Insertion loss forward (dB)	4,0 (±0,5)
Insertion loss reverse (dB)	0,5 (±0,5)
Return loss* EN50083-4	Cat. B
Isolation to TV/DATA (dB) 5-65 MHz	45
Isolation to TV/DATA (dB) 118-470 MHz	25
Isolation to TV/DATA (dB) 470-1000 MHz	23
Connector	F-Female
<b>TV</b>	
Frequency range (MHz)	118-1000
Insertion loss IN-TV (dB)	4,0 (±0,5)
Isolation TV OUT / TV IN (dB) 5-65 MHz	35
Connector	IEC-Male
<b>FM</b>	
Frequency range (MHz)	87,5-108
Insertion loss IN-FM (dB)	0,6 (±0,5)
Connector	IEC-Female

Dimension (H 68 x W 50 x D 24 mm)

\* According to CENELEC:

- A: 5-40 MHz  $\geq$  22 dB, min. 14 dB @ 40-1750 MHz  $\div$  1,5/oct.
- B: 5-40 MHz  $\geq$  18 dB, min. 10 dB @ 40-1750 MHz  $\div$  1,5/oct.
- C: 5-40 MHz  $\geq$  14 dB, min. 10 dB @ 40-1750 MHz  $\div$  1,5/oct.
- D: 5-1750 MHz  $\geq$  10 dB

Reduced performance can be expected in the 862-1000 MHz range.

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## Freja Push-on filter

The Freja push-on passive filter satisfies the demands made by modern CATV household installations where passive filtering of TV, FM and DATA signals is required. The push-on filter is designed to be installed on an existing outlet with TV and FM terminals, and then provides an extra port for modem connection. This is obtained by splitting the signal on the outlet TV port. The FM signal is routed directly through the POF.



On most outlets the white plastic cover provides a discrete look when the POF is installed.

Type	Freja POF 1-4-C
Item no.	42109
Version	Diplex
<b>Data</b>	
Frequency forward (MHz)	118-1000
Frequency reverse (MHz)	5-65
Insertion loss forward (dB)	4,0 (±0,5)
Insertion loss reverse (dB)	0,5 (±0,5)
Return loss* EN50083-4	Cat. B
Isolation to TV/DATA (dB) 5-65 MHz	45
Isolation to TV/DATA (dB) 118-470 MHz	25
Isolation to TV/DATA (dB) 470-1000 MHz	23
Connector	F-Female
<b>TV</b>	
Frequency range (MHz)	118-1000
Insertion loss IN-TV (dB)	4,0 (±0,5)
Isolation TV OUT / TV IN (dB) 5-65 MHz	35
Connector	IEC-Male
<b>FM</b>	
Frequency range (MHz)	87,5-108 †
Insertion loss IN-FM (dB)	0,6 (±0,5)
Connector	IEC-Female
<b>General</b>	
TV input connector	IEC-Female
FM input connector	IEC-male
Dimensions (H x W x D) (mm)	69.3 x 49.4 x 23.8
Plast type	PE-LD

\* According to CENELEC:

- A: 5-40 MHz  $\geq$  22 dB, min. 14 dB @ 40-1750 MHz  $\div$  1,5/oct.
- B: 5-40 MHz  $\geq$  18 dB, min. 10 dB @ 40-1750 MHz  $\div$  1,5/oct.
- C: 5-40 MHz  $\geq$  14 dB, min. 10 dB @ 40-1750 MHz  $\div$  1,5/oct.
- D: 5-1750 MHz  $\geq$  10 dB

† The FM signal is routed directly through the POF, so the actual bandwidth is wider.

Reduced performance can be expected in the 862-1000 MHz range.

NETGEAR  
PN: 300-10368-01



### Notes:

1. All dimensions are mm. Tolerance: XX.X See OPS-10047.
2. Materials, finish, bar code symbology and construction requirements, see OPS-10047.