



BF Band-pass Filters

MANUAL v1.2



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We would like to thank you for choosing this item and welcome you to the SVP's growing family of products.

We are sure that the addition of this item to your existing installation will cause you nothing but satisfaction.

Please read these instructions carefully, and keep them at hand in case you have to refer to them.



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1 Introduction

SVP provides a wide range of RF and microwave filters for different frequency bands with a wide variety of features.

Band-pass filters can be used either in the transmitter or in the receiver site.

In the transmitter site, when several signals are multiplexed in frequency, after the power amplifier, the use of band-pass filters is necessary in order to reduce the noise in adjacent channels and that the transmitted signals meet the recommendations for noise emissions in nearby channels.

In the receiver site, band pass filters are used in order to limit the band where the receiver will operate. These band-pass filters attenuate signals out of the band and protect the down-converters from being saturated by nearby signals.



2 BF-2000-2107 Bandpass Filter

2.1 Description

SVP provides a wide range of RF and microwave filters for different frequency bands with a wide variety of different features.

The BF-2000-2107 band-pass filter has a bandwidth of 107 MHz. The operation frequency band is from 2.000 to 2.107 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

2.2 Technical Features

The table below shows the main features of the BF-2000-2107 filter:

Item	Specification
Frequency range	2.000 to 2.107 MHz
Bandwidth	107 MHz
Insertion loss	< 1 dB
Connectors	SMA
Weight	35 g
Number of poles	5
Size	75 x 22 x 16 mm
Temperature range	-20 to +50 °C

Table 2.1 BF-2000-2107



3 BF-2000-2700 Bandpass Filter

3.1 Description

The BF-2000-2700 band-pass filter has a bandwidth of 700 MHz. The operation frequency band is from 2.000 to 2.700 MHz. Insertion losses are very low; maximum 0,3 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.



Figure 3.1 BF-2000-2700 Bandpass filter

3.2 Technical Features

The table below shows the main features of the BF-2000-2700 filter:

Item	Specification
Frequency range	2.000 to 2.700MHz
Bandwidth	700 MHz
Insertion loss	< 0,3 dB
Connectors	SMA
Weight	57 g
Number of poles	5
Size	72 x 36 x 17 mm
Temperature range	-20 to +50 °C

Table 3.1 BF-2000-2700



The figure below shows the performance of the BF-2000-2700 filter. S11 and S21 parameters have been measured.

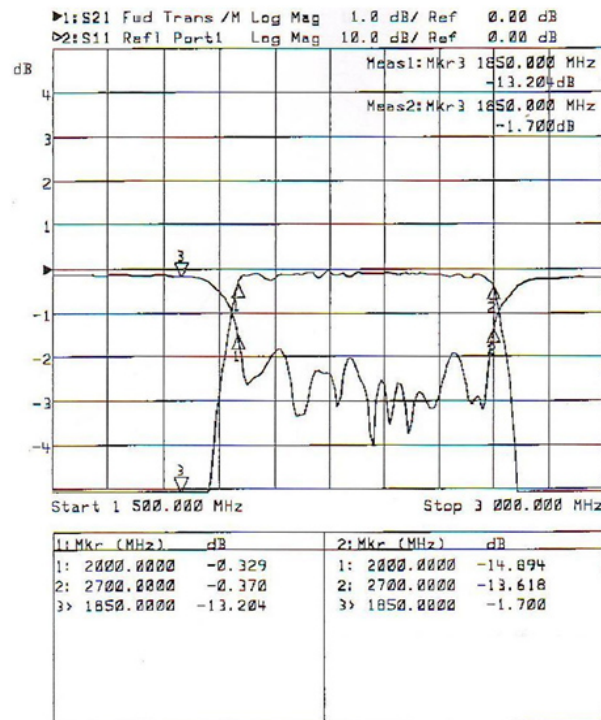


Figure 3.2 S11 and S21 parameter measurement BF-2000-2700 filter

3.3 Mechanical Characteristics

The figure below shows mechanical information of the BF-2000-2700filter

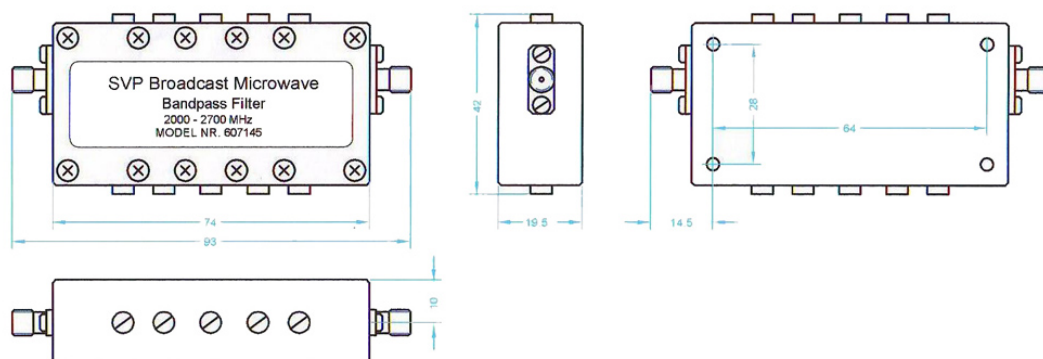


Figure 3.3 BF-2000-2700 Mechanical Layout

4 BF-2010-2090 Bandpass filter

4.1 Description

The BF-2010-2090 band-pass filter has a bandwidth of 80 MHz. The operation frequency band is from 2.010 to 2.090 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

4.2 Technical Features

The table below shows the main features of the BF-2010-2090 filter:

Item	Specification
Frequency range	2.010 to 2.090MHz
Bandwidth	80 MHz
Insertion loss	< 1 dB
Connectors	SMA
Weight	61 g
Number of poles	4
Size	82 x 36 x 18 mm
Temperature range	-20 to +50 °C

Table 4.1 BF-2010-2090



5 BF-2023-2111 Bandpass Filter

5.1 Description

The BF-2023-2111 band-pass filter has a bandwidth of 88 MHz. The operation frequency band is from 2.023 to 2.111 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

5.2 Technical Features

The table below shows the main features of the BF-2023-2111 filter:

Item	Specification
Frequency range	2.023 to 2.111MHz
Bandwidth	88 MHz
Insertion loss	< 1 dB
Connectors	SMA
Weight	62 g
Number of poles	5
Size	75 x 22 x 16 mm
Temperature range	-20 to +50 °C

Table 5.1 BF-2023-2111



6 BF-2083-2107 Bandpass Filter

6.1 Description

The BF-2083-2107 band-pass filter has a bandwidth of 24 MHz. The operation frequency band is from 2.083 to 2.107 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

6.2 Technical Features

The table below shows the main features of the BF-2083-2107 filter:

Item	Specification
Frequency range	2.083 to 2.107MHz
Bandwidth	24 MHz
Insertion loss	< 1 dB
Connectors	SMA
Weight	82 g
Number of poles	6
Size	99 x 27 x 18 mm
Temperature range	-20 to +50 °C

Table 6.1 BF-2083-2107



7 BF-2100-2700 Bandpass Filter

7.1 Description

The BF-2100-2700 band-pass filter has a bandwidth of 600 MHz. The operation frequency band is from 2.100 to 2.700 MHz. Insertion losses are very low; maximum 0,3 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.



Figure 7.1 BF-2100-2700 Bandpass filter

7.2 Technical Characteristics

The table below shows main features of the BF-2100-2700 filter:

Item	Specification
Frequency range	2.100 to 2.700 MHz
Bandwidth	600 MHz
Insertion loss	< 0,3 dB
Connectors	SMA
Weight	99 g
Number of poles	5
Size	82 x 36 x 18 mm
Temperature range	-20 to +50 °C

Table 7.1 BF-2100-2700



7.3 Mechanical Characteristics

The figure below shows mechanical information of the BF-2100-2700 filter:

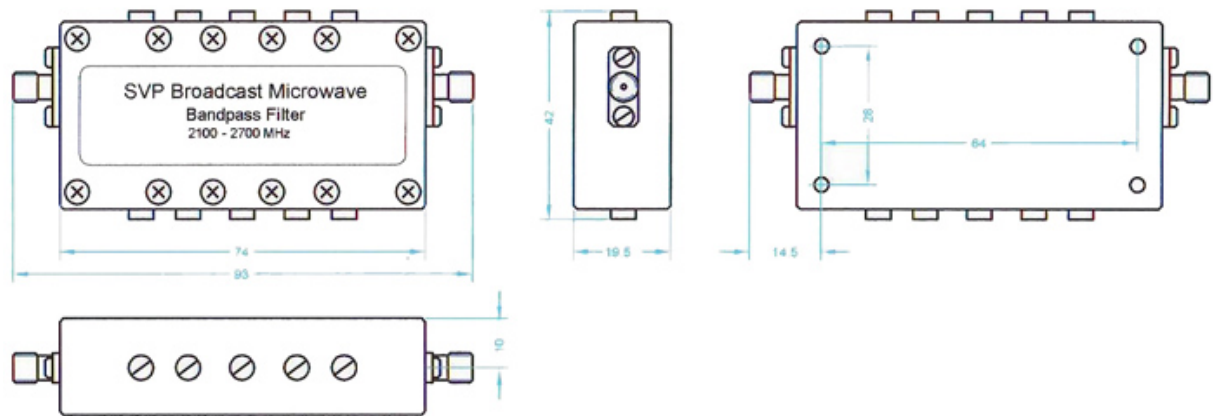


Figure 7.2 BF-2100-2700 Mechanical Layout

8 BF-2200-2600 Bandpass Filter

8.1 Description

The BF-2200-2600 band-pass filter has a bandwidth of 400 MHz. The operation frequency band is from 2.200 to 2.600 MHz. Insertion losses are very low; maximum 0,3 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.



Figure 8.1 BF-2200-2600 Bandpass Filter

8.2 Technical Characteristics

The table below shows main features of the BF-2200-2600 filter:

Item	Specification
Frequency range	2.200 to 2.600 MHz
Bandwidth	400 MHz
Insertion loss	< 0,3 dB
Connectors	SMA
Weight	51 g
Number of poles	8
Size	75 x 22 x 16 mm
Temperature range	-20 to +50 °C

Table 8.1 BF-2200-2600



8.3 Mechanical Characteristics

The figure below shows mechanical information of the BF-2200-2600 filter:

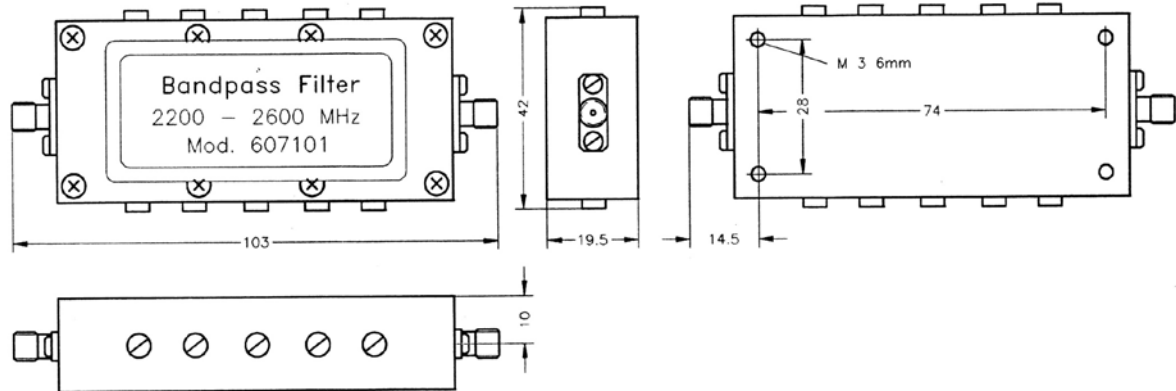


Figure 8.2 BF-2200-2600 Bandpass Filter

9 BF-2210-2386 Bandpass Filter

9.1 Description

The BF-2210-2386 band-pass filter has a bandwidth of 176 MHz. The operation frequency band is from 2.210 to 2.386 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

9.2 Technical Features

The table below shows the main features of the BF-2210-2386 filter:

Item	Specification
Frequency range	2.210 to 2.386 MHz
Bandwidth	176 MHz
Insertion loss	< 1 dB
Connectors	SMA
Weight	51 g
Number of poles	6
Size	75 x 22 x 16 mm
Temperature range	-20 to +50 °C

Table 9.1 BF-2210-2386



10 BF-2225-2330 Bandpass Filter

10.1 Description

The BF-2225-2330 band-pass filter has a bandwidth of 105 MHz. The operation frequency band is from 2.225 to 2.330 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

10.2 Technical Features

The table below shows the main features of the BF-2225-2330 filter:

Item	Specification
Frequency range	2.225 to 2.330 MHz
Bandwidth	105 MHz
Insertion loss	< 1 dB
Connectors	SMA
Number of poles	5
Temperature range	-20 to +50 °C

Table 10.1 BF-2225-2330



11 BF-2260-2540 Bandpass Filter

11.1 Description

The BF-2260-2540 band-pass filter has a bandwidth of 280 MHz. The operation frequency band is from 2.260 to 2.540 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.



Figure 11.1 BF-2260-2540 bandpass filter

11.2 Technical Features

The table below shows the main features of the BF-2260-2540 filter:

Item	Specification
Frequency range	2.260 to 2.540 MHz
Bandwidth	280 MHz
Insertion loss	< 1 dB
Connectors	SMA
Weight	93 g
Number of poles	5
Size	82 x 36 x 18 mm
Temperature range	-20 to +50 °C

Table 11.1 BF-2260-2540



11.3 Mechanical Characteristics

The figure below shows mechanical information of the BF-2260-2540 filter:

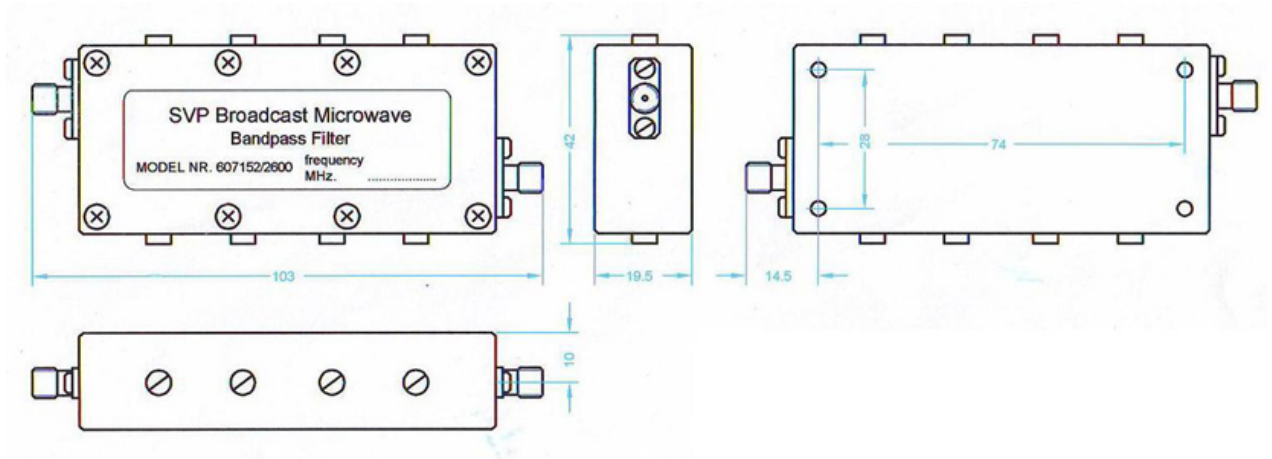


Figure 11.2 BF-2260-2540. Mechanical layout

12 BF-2304-2376 Bandpass Filter

12.1 Description

The BF-2304-2376 band-pass filter has a bandwidth of 72 MHz. The operation frequency band is from 2.304 to 2.376 MHz. Insertion losses are very low; maximum 0,6 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.



Figure 12.1 BF-2304-2376 bandpass filter

12.2 Technical Features

The table below shows the main features of the BF-2304-2376 filter:

Item	Specification
Frequency range	2.304to 2.376 MHz
Bandwidth	72 MHz
Insertion loss	< 0,6 dB
Connectors	SMA
Weight	98 g
Number of poles	4
Size	82 x 36 x 18 mm
Temperature range	-20 to +50 °C

Table 12.1 BF-2304-2376



The figure below shows the performance of the BF-2304-2376 filter. S11 and S21 parameters have been measured.

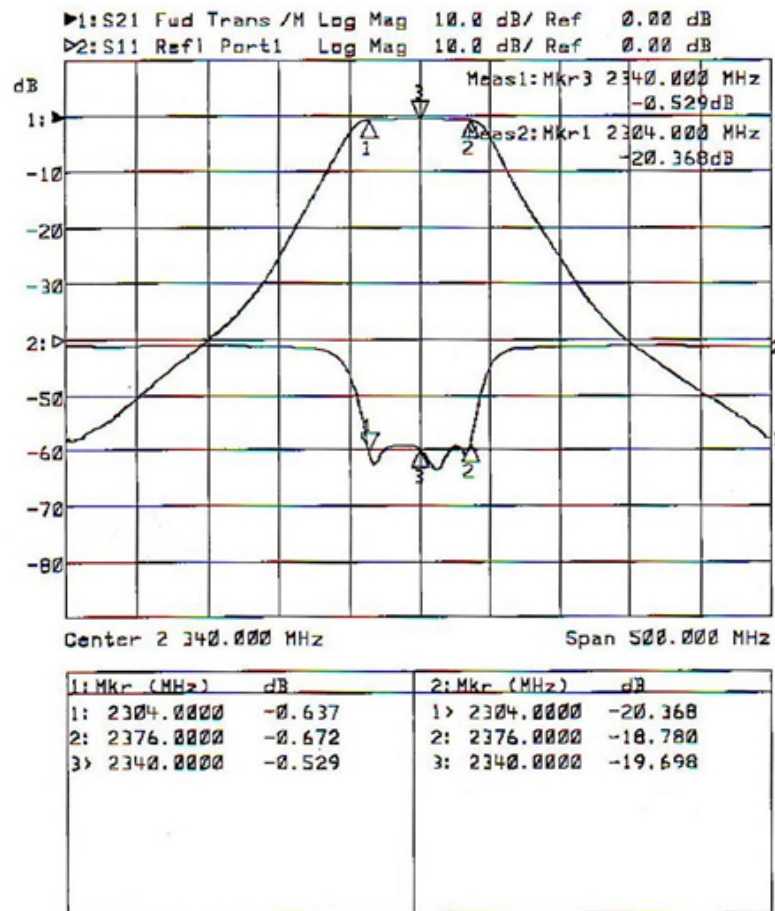


Figure 12.2 S11 and S21 parameter measurement in BF-2304-2376 filter

12.3 Mechanical characteristics

The figure below shows mechanical information of the BF-2304-2376 filter

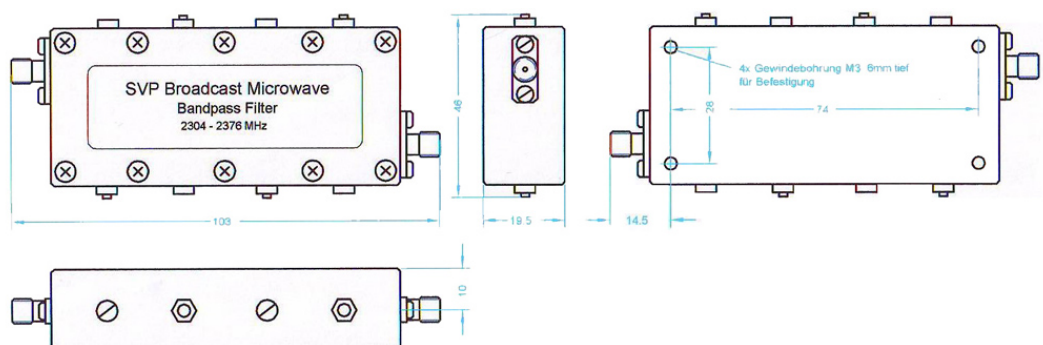


Figure 12.3 Filter BF-2304-2376

13 BF-2330-2610 Bandpass Filter

13.1 Description

The BF-2330-2610 band-pass filter has a bandwidth of 280 MHz. The operation frequency band is from 2.330 to 2.610 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

13.2 Technical Features

The table below shows the main features of the BF-2330-2610 filter:

Item	Specification
Frequency range	2.330 to 2.610 MHz
Bandwidth	280 MHz
Insertion loss	< 1 dB
Connectors	SMA
Weight	92 g
Number of poles	5
Size	82 x 36 x 17 mm
Temperature range	-20 to +50 °C

Table 13.1 BF-2330-2610



14 BF-3400-4000 Bandpass Filter

14.1 Description

The BF-3400-4000 band-pass filter has a bandwidth of 600 MHz. The operation frequency band is from 3.400 to 4.000 MHz. Insertion losses are very low; maximum 0,2 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.



Figure 14.1 BF-3400-4000 Bandpass filter

14.2 Technical Characteristics

The table below shows the main features of the BF-3400-4000 filter:

Item	Specification
Frequency range	3.400 to 4.000 MHz
Bandwidth	600 MHz
Insertion loss	< 0,2 dB
Connectors	SMA
Weight	69 g
Number of poles	5
Size	74 x 28 x 16 mm
Temperature range	-20 to +50 °C

Table 14.1 BF-3400-4000



The figure below shows the performance of the BF-3400-4000 filter. S11 and S21 parameters have been measured.

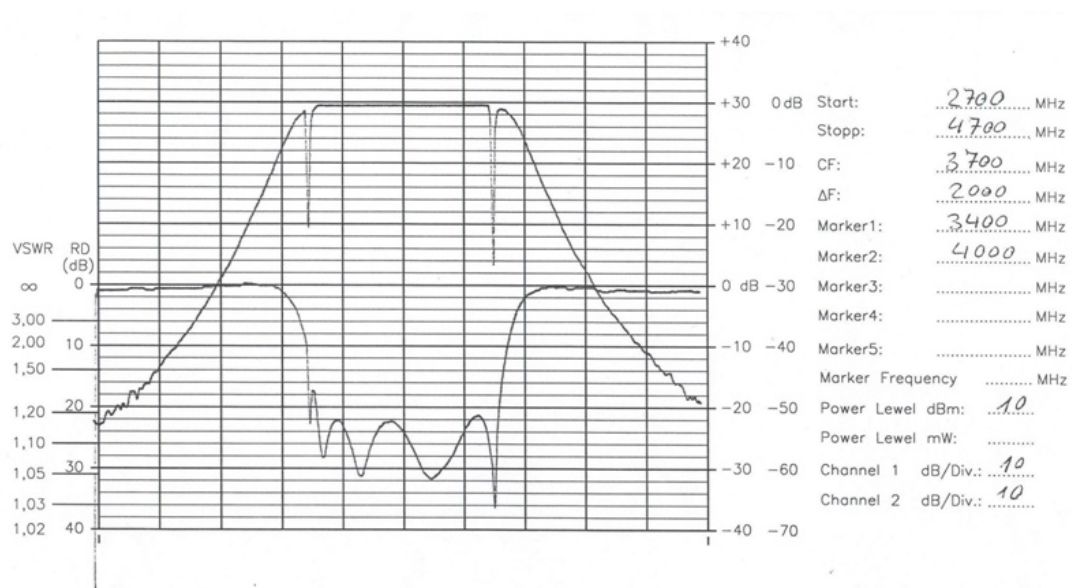


Figure 14.2 S11 and S21 parameter measurement for the BF-3400-4000 filter

14.3 Mechanical Characteristics

The figure below shows mechanical information of the BF-3400-4000 filter

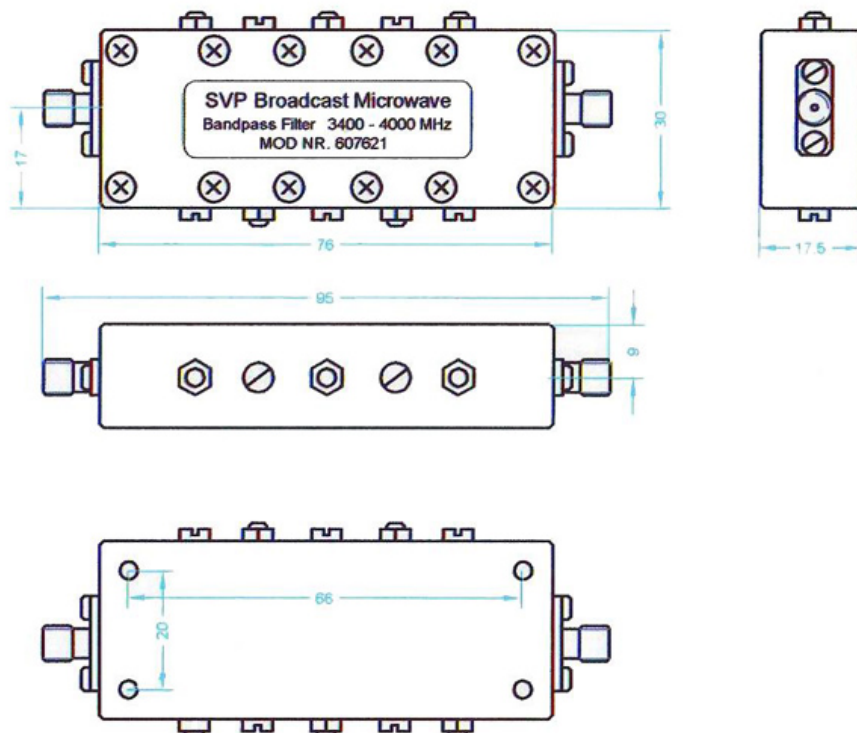


Figure 14.3 BF-3400-4000 Mechanical Layout

15 BF-4400-5100 Bandpass Filter

15.1 Description

The BF-4400-5100 band-pass filter has a bandwidth of 350 MHz. The operation frequency band is from 4.400 to 5.100 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

15.2 Technical Features

The table below shows the main features of the BF-4400-5100 filter:

Item	Specification
Frequency range	4.400 to 4.000 MHz
Bandwidth	350 MHz
Insertion loss	< 1 dB
Connectors	SMA
Weight	38 g
Number of poles	10
Size	75 x 14 x 13 mm
Temperature range	-20 to +50 °C

Table 15.1 BF-4400-5100



16 BF-6800-7300 Bandpass Filter

16.1 Description

The BF-6800-7300 band-pass filter has a bandwidth of 500 MHz. The operation frequency band is from 6.800 to 7.300 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

16.2 Technical Features

The table below shows the main features of the BF-6800-7300 filter:

Item	Specification
Frequency range	6.800 to 7.300 MHz
Bandwidth	500 MHz
Insertion loss	< 1 dB
Connectors	SMA
Weight	96 g
Number of poles	5
Size	56 x 18 x 11 mm
Temperature range	-20 to +50 °C

Table 16.1 BF-6800-7300



17 BF-10000-10500 Bandpass Filter

17.1 Description

The BF-10000-10500 band-pass filter has a bandwidth of 500 MHz. The operation frequency band is from 10.000 to 10.500 MHz. Insertion losses are very low; maximum 0,5 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

17.2 Technical Features

The table below shows the main features of the BF-10000-10500 filter:

Item	Specification
Frequency range	10.000 to 10.500 MHz
Bandwidth	500 MHz
Insertion loss	< 0,5 dB
Connectors	SMA
Weight	98 g
Number of poles	5
Size	63 x 18 x 11 mm
Temperature range	-20 to +50 °C

Table 17.1 BF-10000-10500



18 BF-10200-10600 Bandpass Filter

18.1 Description

The BF-10200-10600 band-pass filter has a bandwidth of 400 MHz. The operation frequency band is from 10.200 to 10.600 MHz. Insertion losses are very low; maximum 1 dB inside the pass band.

This filter is ideal for transmitting COFDM signals which have been multiplexed in frequency and afterwards amplified. So the filter should be installed at the output of the amplifier.

This filter is also commonly used in receiver sites where high RF signals are present. Also it highly attenuates Wi-Fi signals present in the 2,4 GHz band, so it prevents the down-converter from being saturated by nearby high power RF signals. This filter reduces the reception bandwidth but still is wide enough for the cases that a different frequency has to be used because a transmitted signal is interfered.

18.2 Technical Features

The table below shows the main features of the BF-10200-10600 filter:

Item	Specification
Frequency range	10.200 to 10.600 MHz
Bandwidth	400 MHz
Insertion loss	< 0,5 dB
Connectors	SMA
Weight	98 g
Number of poles	5
Size	63 x 18 x 11 mm
Temperature range	-20 to +50 °C

Table 18.1 BF-10200-10600



19 Notes



End note

At SVP Broadcast Microwave S.L. we make a constant effort to continuously improve our equipments and models. For that reason, please understand that there may be some changes in design, equipment and technology. Therefore, we cannot be held liable for the data, figures and descriptions given in this datasheet.

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