

# GENERAL CATALOG



**- VARIOUS POWER**

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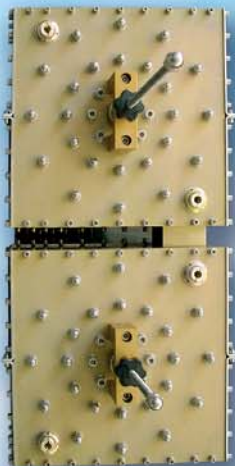


**- FROM 300W TO 30KW  
POWER**

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**- STANDARD CONFIGURATION  
OF 2 CAVITIES**

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**- SPECIAL CONFIGURATION  
3 AND 4 CAVITIES**

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**- LOW LOSS,  
HIGH ISOLATION**

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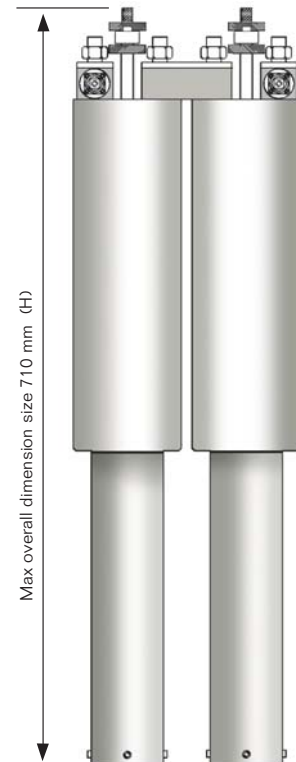
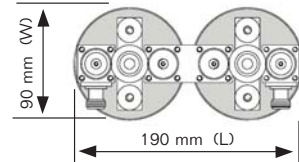
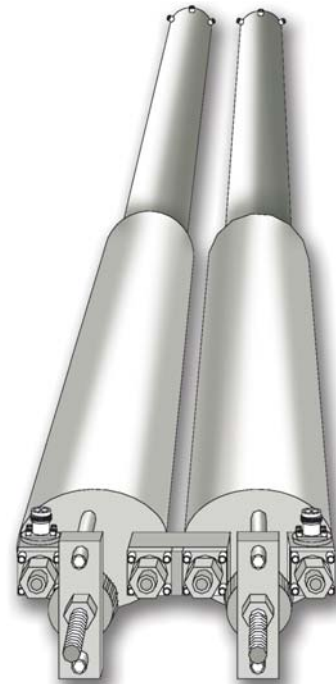
## Model FFC03

- **Band-Pass Filter**
- **FM Band 87.5÷108 MHz**
- **Band II**

**THESE ARE TWO STANDARD RESONANT CAVITY FILTERS, AND IN THE SPECIAL VERSION WITH 3 AND 4.**

**ALL THE MODELS ARE USED TO MAKE UP MIXERS WITH SEVERAL CHANNELS.**

The band pass filters was designed as an extension of our band pass combiner technology. Using our industry-leading square, octagonal, cavity filter design, the filter provides a one-time-buy filtering solution for the broadcaster located at multiple-user site. The filter isolates the transmission system to eliminate spurious emissions.



### TYPICAL SPECIFICATIONS

Model	FFC03
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	at $f_0$ 0.6 dB Max
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -8 dB)
Connectors	N Input-Output
Max Power	300 W
Working Temperature	-20°C ÷ +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12μ thickness)

### Features:

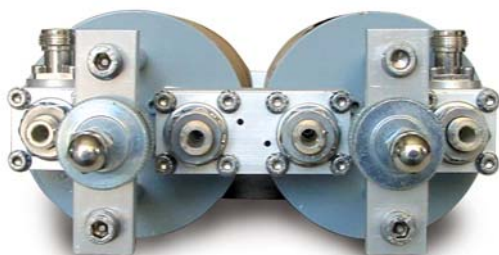
- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Natural convection

### No Rack Version

Dimensions	710 (Max size) x 190 x 90 mm (28-Max Size-x7.5x3.5 inch) (HxLxW)
Net Weight	≅ 6 Kg

### Rack Version (optional)

Panel Size	2 HE (1 HE = 44.45 mm)
Net Weight	≅ 6 Kg



"These specifications are subject to change without notice"

- Triple Cavity Version
- Band-Pass Filter
- FM Band 87.5÷108 MHz
- Band II

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### TYPICAL SPECIFICATIONS

Model	FFTC03 Triple cavity version
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	at $f_0$ 0.8 dB Max
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -14 dB)
Connectors	N Input-Output
Max Power	300 W
Working Temperature	-20°C ÷ +50°C
Colour	Enamel gray 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12μ thickness)

### Features:

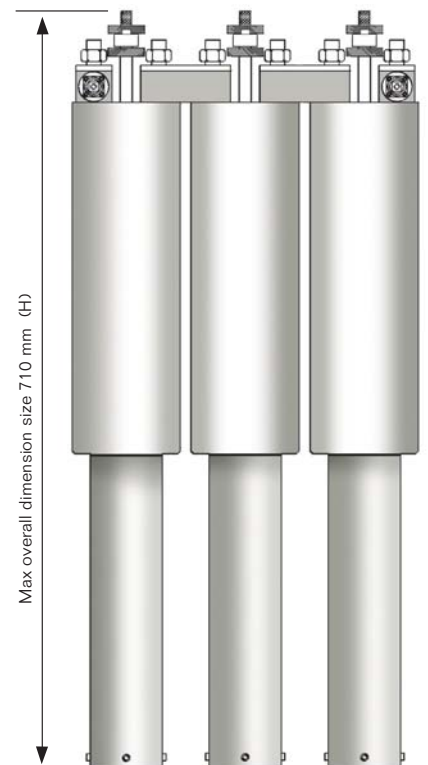
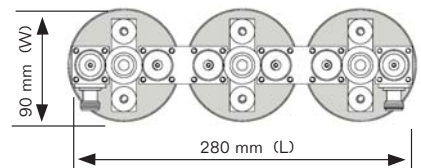
- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Natural convection

### No Rack Version

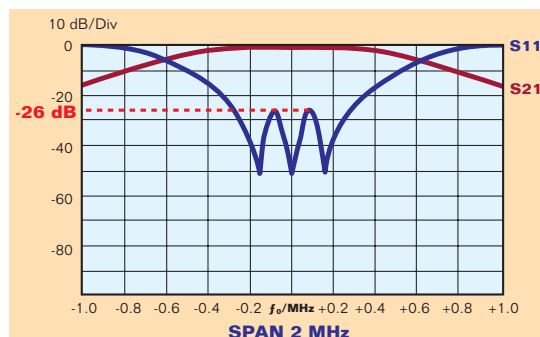
Dimensions	710 (Max size) x 280 x 90 mm (28-Max Size-x11x3.5 inch) (HxLxW)
Net Weight	≅ 9 Kg (triple cavity)

### Rack Version (optional)

Panel Size	2 HE (1 HE = 44.45 mm)
Net Weight	≅ 9 Kg (triple cavity)



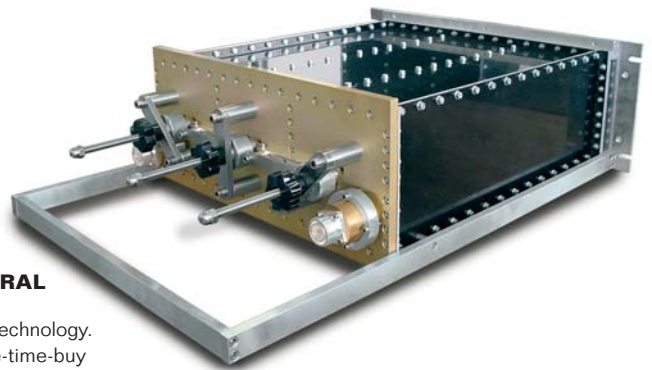
Typical shape of a curves for S11 and S21 parameters



"These specifications are subject to change without notice"

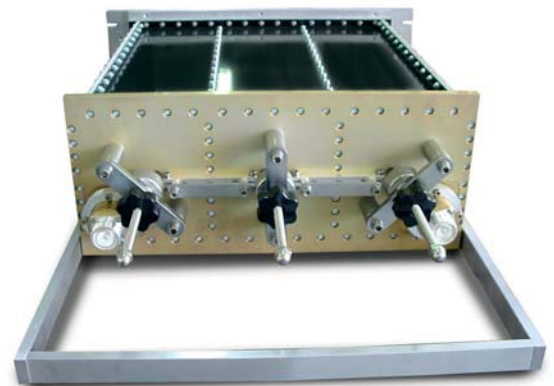
## Model FFC05

- Band-Pass Filter
- FM Band 87.5÷108 MHz
- Band II



**THESE ARE THREE STANDARD RESONANT CAVITY FILTERS. ALL THE MODELS ARE USED TO MAKE UP MIXERS WITH SEVERAL CHANNELS.**

The band pass filters was designed as an extension of our band pass combiner technology. Using our industry-leading square, cavity filter design, the filter provides a one-time-buy filtering solution for the broadcaster located at multiple-user site. The filter isolates the transmission system to eliminate spurious emissions.



### TYPICAL SPECIFICATIONS

Model	FFC05
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR $\pm 150$ KHz	1.1:1 Max
Insertion Loss	at $f_0$ 0.65 dB Max
Return Loss $\pm 150$ KHz	$\leq -26$ dB
Rejection	per customer's requirements (Typical $\pm 1$ MHz it's even to $-14$ dB)
Connectors	7/16" Input-Output (Option 7/8" EIA)
Max Power	600 W
Working Temperature	$-20^\circ\text{C} \div +50^\circ\text{C}$
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min $12\mu$ thickness)

### Features:

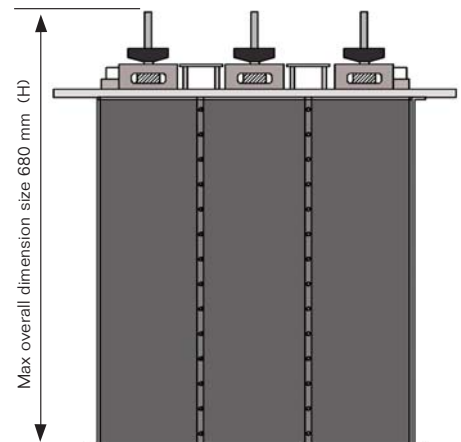
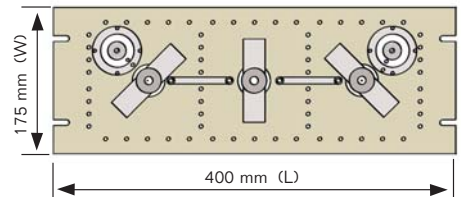
- Distortion – Free Transmission
- Standard configuration of 3 cavities
- Low loss, high isolation
- Natural convection

### No Rack Version

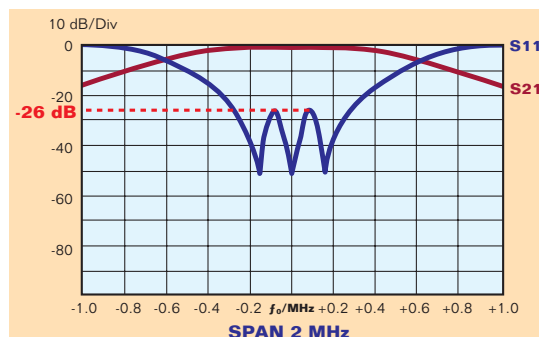
Dimensions	680 (Max size) x 400 x 175 mm (26.8-Max Size-X15.7x6.9 inch) (HxLxW)
Net Weight	$\cong 25$ Kg

### Rack Version (optional)

Panel Size	4 HE (1 HE = 44.45 mm)
Net Weight	$\cong 25$ Kg



Typical shape of a curves for S11 and S21 parameters



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## Model FFC08 - FFC2 - FFC2/78

- **Band-Pass Filter**
- **FM Band 87.5÷108 MHz**
- **Band II**

**THESE ARE TWO STANDARD RESONANT CAVITY FILTERS, AND IN THE SPECIAL VERSION WITH 3 AND 4. ALL THE MODELS ARE USED TO MAKE UP MIXERS WITH SEVERAL CHANNELS.**

The band pass filters was designed as an extension of our band pass combiner technology. Using our industry-leading squarecavity filter design, the filter provides a one-time-buy filtering solution for the broadcaster located at multiple-user site. The filter isolates the transmission system to eliminate spurious emissions.



### TYPICAL SPECIFICATIONS

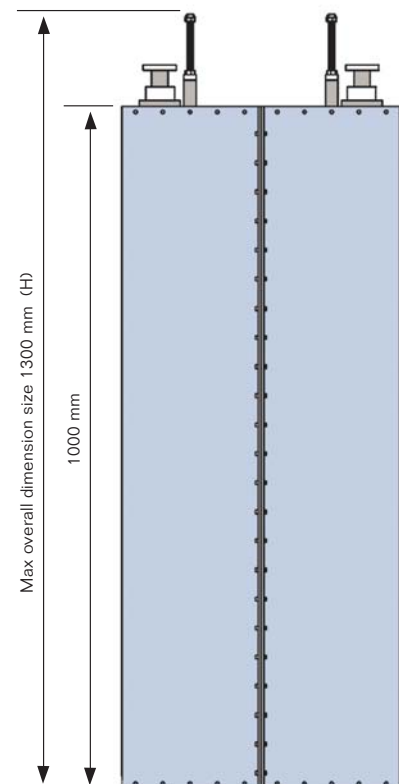
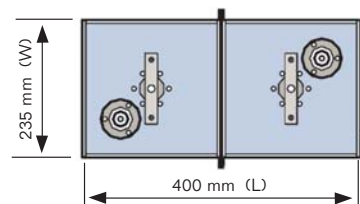
Model	FFC08 - FFC2 - FFC2/78
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	at $f_0$ 0.28 dB Max
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -14 dB)
Connectors	FFC08 - N Input-Output FFC2 - 7/16" Input-Output FFC2/78 - 7/8" Input-Output
Max Power	2 KW (FFC2 - FFC2/78) 800 W (FFC08)
Working Temperature	-20°C + +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12μ thickness)

### Features:

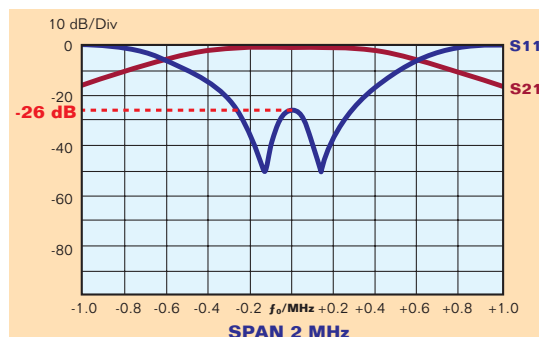
- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Natural convection

### No Rack Version

Dimensions	1300 (Max size) x 400 x 235mm (51.2-Max Size×15.7×9.2 inch) (HxLxW)
Net Weight	≅ 20 Kg (double cavity)



Typical shape of a curves for S11 and S21 parameters



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## Model FFC3

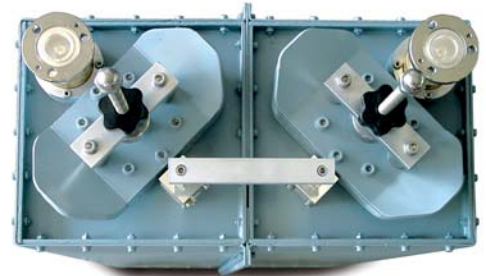
- **Band-Pass Filter**
- **FM Band 87.5÷108 MHz**
- **Band II**

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**ALL THE MODELS ARE USED TO MAKE UP MIXERS WITH SEVERAL CHANNELS.**

The band pass filters was designed as an extension of our band pass combiner technology. Using our industry-leading squarecavity filter design, the filter provides a one-time-buy filtering solution for the broadcaster located at multiple-user site.

The filter isolates the transmission system to eliminate spurious emissions.



### TYPICAL SPECIFICATIONS

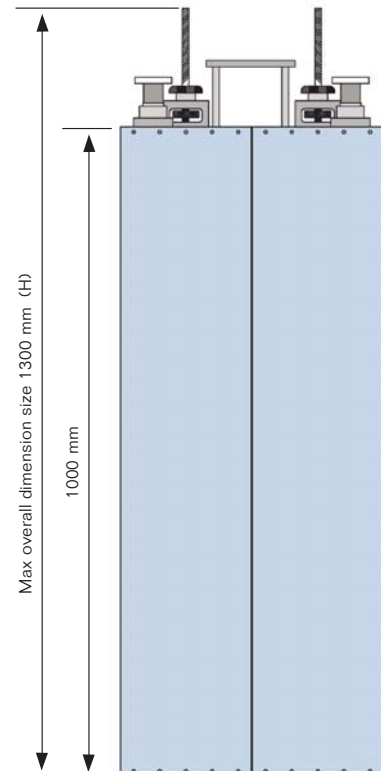
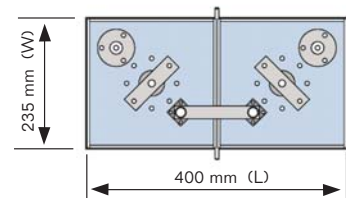
Model	FFC3
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	at $f_0$ 0.25 dB Max
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -14 dB)
Connectors	7/8" EIA Input-Output
Max Power	3 KW
Working Temperature	-20°C ÷ +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12μ thickness)

### Features:

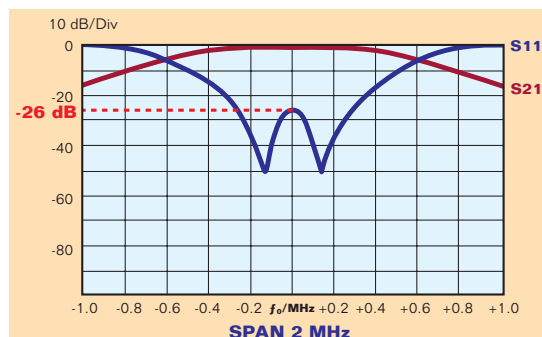
- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Natural convection

### No Rack Version

Dimensions	1300 (Max size) x 400 x 235 mm (51.2-Max Size-x15.7x9.2 inch) (HxLxW)
Net Weight	≈ 25 Kg (double cavity)

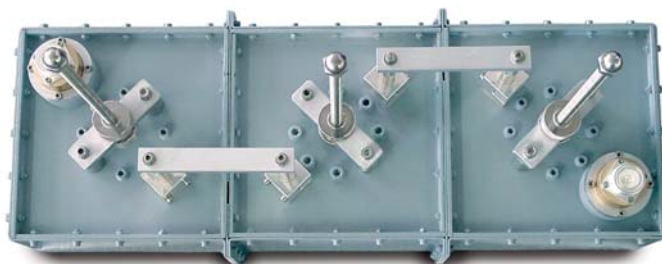


Typical shape of a curves for S11 and S21 parameters



"These specifications are subject to change without notice"

- Triple Cavity Version
- Band-Pass Filter
- FM Band 87.5÷108 MHz
- Band II



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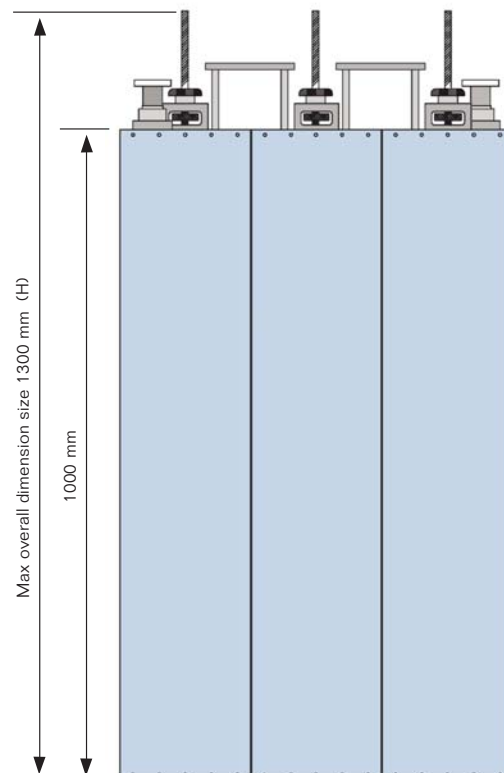
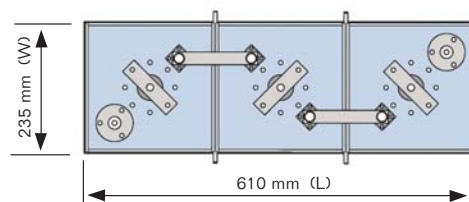
The filter isolates the transmission system to eliminate spurious emissions.

### TYPICAL SPECIFICATIONS

Model	FFTC3 triple cavity
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	at $f_0$ 0.35 dB Max
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -23 dB)
Connectors	7/8" EIA Input-Output
Max Power	3 KW
Working Temperature	-20°C ÷ +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12μ thickness)

### Features:

- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Natural convection



"These specifications are subject to change without notice"

### No Rack Version

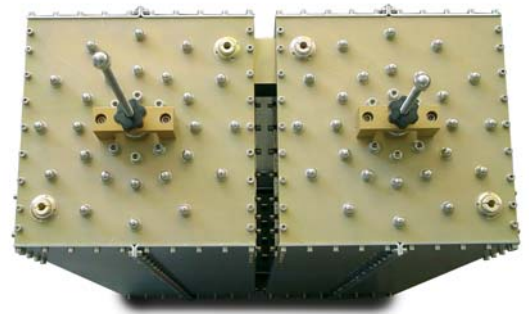
Dimensions	1300 (Max size) x 610 x 235 mm (51.2-Max Size-x24x9.2 inch) (HxLxW)
Net Weight	≈ 37 Kg (double cavity)

## Model FFC5

- Band-Pass Filter
- FM Band 87.5÷108 MHz
- Band II

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**ALL THE MODELS ARE USED TO MAKE UP MIXERS WITH SEVERAL CHANNELS.**

The band pass filters was designed as an extension of our band pass combiner technology. Using our industry-leading squarecavity filter design, the filter provides a one-time-buy filtering solution for the broadcaster located at multiple-user site. The filter isolates the transmission system to eliminate spurious emissions.



### TYPICAL SPECIFICATIONS

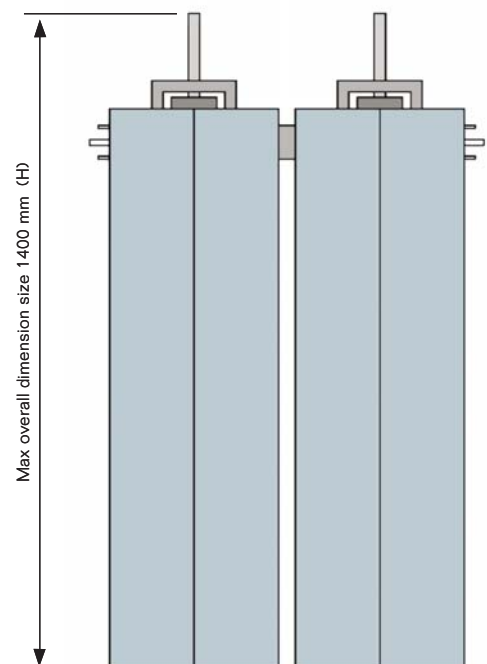
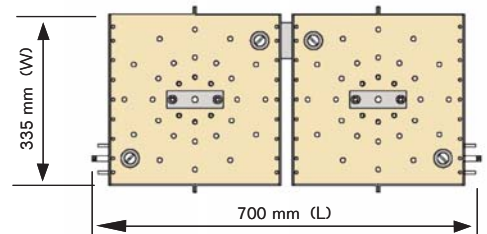
Model	FFC5
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	≤ 0.15 dB
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -14 dB)
Connectors	1+5/8" Input-Output (Option 7/8" - 3+1/8")
Max Power	5 KW
Working Temperature	-20°C ÷ +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12µ thickness)

### Features:

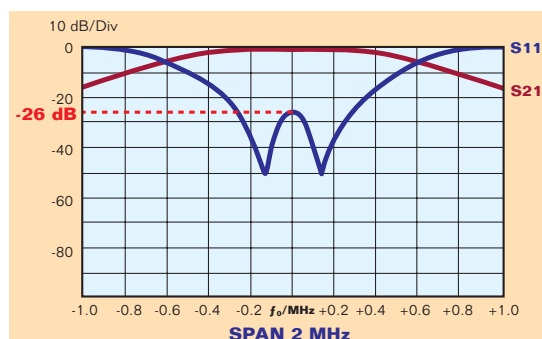
- Modular design
- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Natural convection

### No Rack Version

Dimensions	1400 (Max size) x 700 x 335 mm (55.1-Max Size-x27.6x13.2 inch) (HxLxW)
Net Weight	≅ 45 Kg (double cavity)



Typical shape of a curves for S11 and S21 parameters



"These specifications are subject to change without notice"



- Compact Version
- Band-Pass Filter
- FM Band 87.5÷108 MHz
- Band II

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The band pass filters was designed as an extension of our band pass combiner technology. Using our industry-leading squarecavity filter design, the filter provides a one-time-buy filtering solution for the broadcaster located at multiple-user site.

The filter isolates the transmission system to eliminate spurious emissions.



### TYPICAL SPECIFICATIONS

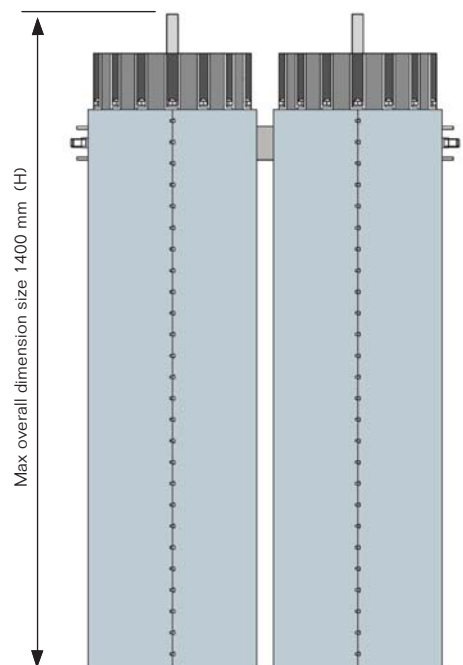
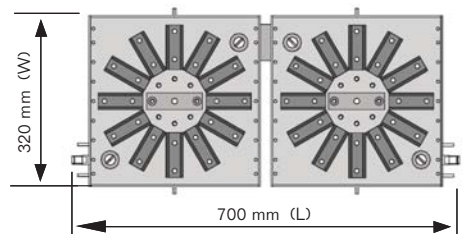
Model	FFC10/C compact version
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	≤ 0.15 dB
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -14 dB)
Connectors	1+5/8" Input-Output (Option 3+1/8")
Max Power	10 KW
Working Temperature	-20°C ÷ +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12μ thickness)

### Features:

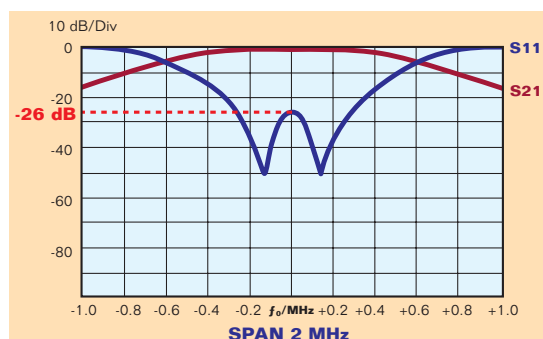
- Modular design
- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Forced air cooling

### No Rack Version

Dimensions	1400 (Max size) x 700 x 320 mm (55.1-Max Size-x27.6x12.6 inch) (HxLxW)
Net Weight	≅ 46 Kg (double cavity)



Typical shape of a curves for S11 and S21 parameters



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## Model FFC10

- Band-Pass Filter
- FM Band 87.5÷108 MHz
- Band II



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The band pass filters was designed as an extension of our band pass combiner technology. Using our industry-leading squarecavity filter design, the filter provides a one-time-buy filtering solution for the broadcaster located at multiple-user site. The filter isolates the transmission system to eliminate spurious emissions.

### TYPICAL SPECIFICATIONS

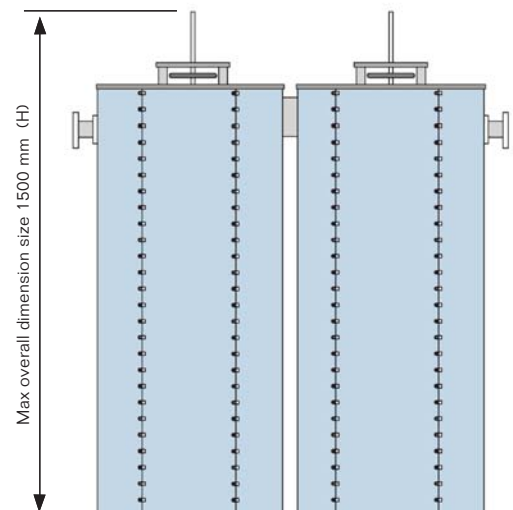
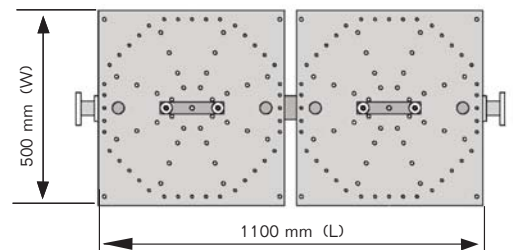
Model	FFC10
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	≤ 0.1 dB
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -14 dB)
Connectors	1+5/8" Input-Output (Option 3+1/8")
Max Power	10 KW
Working Temperature	-20°C ÷ +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12µ thickness)

### Features:

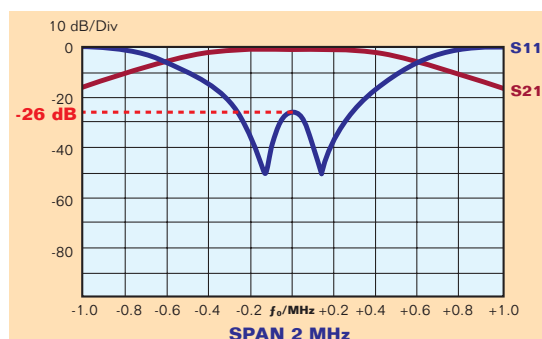
- Modular design
- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Natural convection

### No Rack Version

Dimensions	1500 (Max size) x 1100 x 500 mm (59-Max Size-X43.3x19.7 inch) (HxLxW)
Net Weight	≅ 60 Kg (double cavity)



Typical shape of a curves for S11 and S21 parameters



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- **Band-Pass Filter**
- **FM Band 87.5÷108 MHz**
- **Band II**

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**ALL THE MODELS ARE USED TO MAKE UP MIXERS WITH SEVERAL CHANNELS.**

The band pass filters was designed as an extension of our band pass combiner technology. Using our industry-leading squarecavity filter design, the filter provides a one-time-buy filtering solution for the broadcaster located at multiple-user site. The filter isolates the transmission system to eliminate spurious emissions.



### TYPICAL SPECIFICATIONS

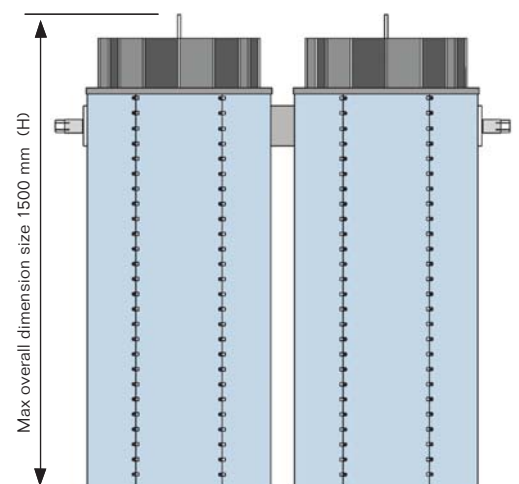
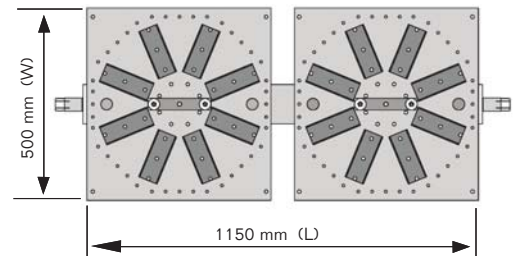
Model	FFC20
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	≤ 0.1 dB
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -14 dB)
Connectors	3+1/8" Input-Output
Max Power	20 KW
Working Temperature	-20°C ÷ +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12µ thickness)

### Features:

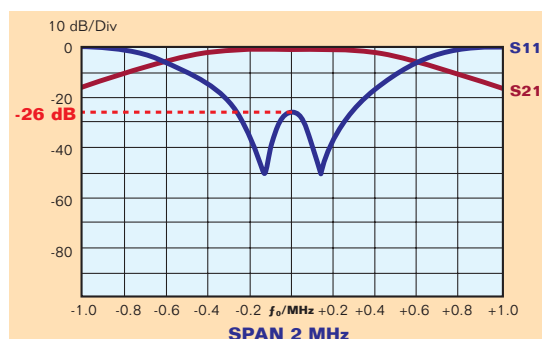
- Modular design
- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Natural convection

### No Rack Version

Dimensions	1500 (Max size) x 1150 x 500 mm (59"Max Size x 45.3x 19.7 inch) (HxLxW)
Net Weight	≈ 58 Kg (double cavity)



Typical shape of a curves for S11 and S21 parameters



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## Model FFC30

- Band-Pass Filter
- FM Band 87.5÷108 MHz
- Band II

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ALL THE MODELS ARE USED TO MAKE UP MIXERS WITH SEVERAL CHANNELS.

The band pass filters was designed as an extension of our band pass combiner technology. Using our industry-leading squarecavity filter design, the filter provides a one-time-buy filtering solution for the broadcaster located at multiple-user site.

The filter isolates the transmission system to eliminate spurious emissions.



### TYPICAL SPECIFICATIONS

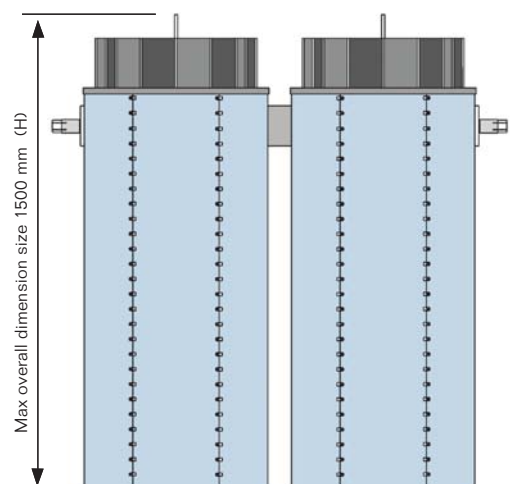
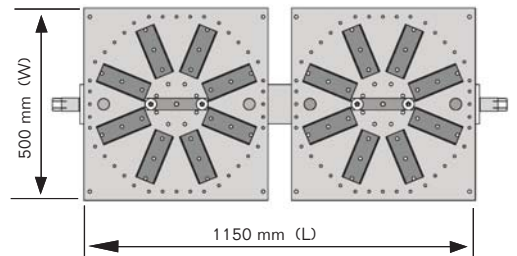
Model	FFC10
Impedance	50 Ohm
Frequency Range	87.5÷108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	≤ 0.1 dB
Return Loss ±150 KHz	≤ -26 dB
Rejection	per customer's requirements (Typical ±1MHz it's even to -14 dB)
Connectors	3+1/8" Input-Output
Max Power	30 KW
Working Temperature	-20°C ÷ +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12µ thickness)

### Features:

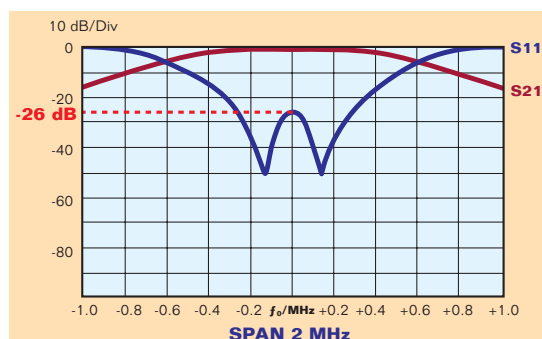
- Modular design
- Distortion – Free Transmission
- Standard configuration of 2 cavities
- Special configuration 3 and 4 cavities
- Low loss, high isolation
- Natural convection

### No Rack Version

Dimensions	1500 (Max size) x 1150 x 500 mm (59-Max Size-x45.3x19.7 inch) (HxLxW)
Net Weight	≈ 58 Kg (double cavity)



Typical shape of a curves for S11 and S21 parameters



"These specifications are subject to change without notice"