

## MODEL FDCSDC03

- COMBINER 2 CHANNELS
- TYPE STAR POINT
- FM BAND 87.5+108 MHz
- BAND II
- OPTION

Model	Input Connector	Output Connector	Power Input	Power Output
FDCSDC03-1	N	7/16"	300W	600W
FDCSDC03-2	N	7/8"	300W	600W

The star combiner basically consist of parallel connecting several transmitters to a single antenna system through suitable band pass filters, each n tuned transmitter frequency to witch it's connected. The parallel connection is obtained by means of coaxial lines of determined length, so as provide for adequate isolation between transmitters.

### TYPICAL SPECIFICATIONS

<b>Model</b>	FDCSDC03 – Type STAR POINT
<b>Impedance</b>	50 Ohm
<b>Frequency Range</b>	87.5-108 MHz
<b>VSWR ±150 KHz</b>	1.1:1 max
<b>Insertion Loss</b>	at $f_0$ 0.8 dB typical
	≤ -26 dB
	≥ 30 dB
<b>Isolation ±1.4MHz</b>	≥ 27 dB (~1dB insertion loss)
	2
	1
	Input N female
	Output N (See table)
	300W x 2 Channels
	-20°C ÷ +50°C
	Enamel Gray Ral 7001
	Aluminium, Brass, Copper, PTFE, Stainless Steel, Silvering (min 12µm thickness)

### Features:

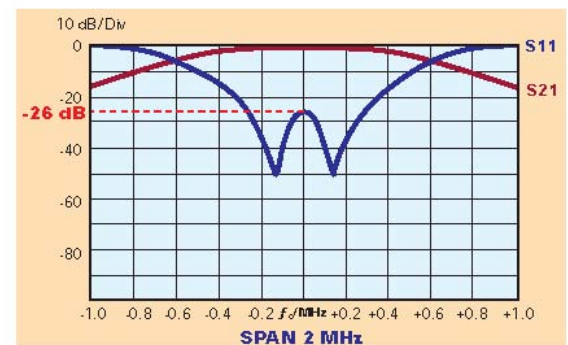
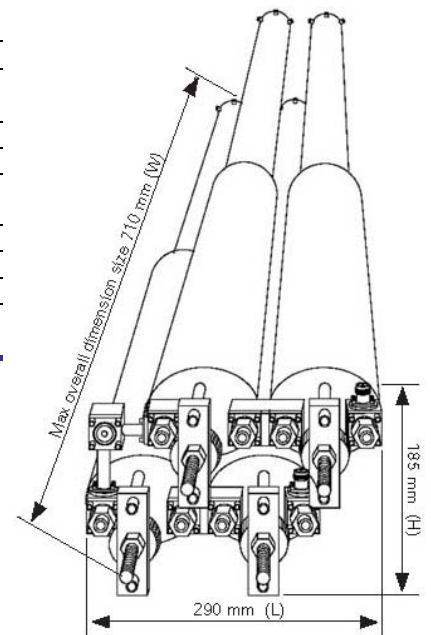
- Distortion – Free Transmission
- Starpoint system with pass stop
- Low loss, high isolation
- Natural convection
- Option whit Rack

#### No rack version

<b>Dimensions</b>	185x290x710 mm (7.3x11.4x28 inch) (HxLxW)
<b>Net Weight</b>	≅ 12 Kg

#### Rack version (optional)

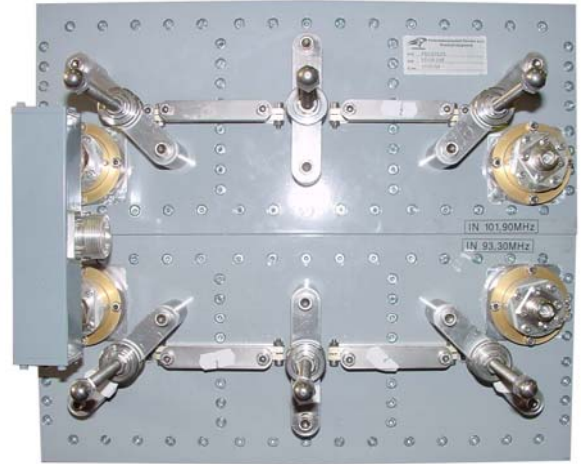
<b>Panel Size</b>	6 HE (1 HE=44,45 mm)
<b>Net Weight</b>	≅ 12 Kg



Typical shape of a curves for S11 and S12 parameters for single filter

# MODEL FDCSTC05

- COMBINER 2 CHANNELS
- TYPE STAR POINT
- RACK VERSION OPTION
- FM BAND 87.5÷108 MHz
- BAND II
- OPTION



Model	Input Connector	Output Connector	Power Input	Power Output
FDCSTC05-1	7/16"	7/16"	600W	1200W
FDCSTC05-2	7/16"	7/8"	600W	1200W

The star combiner basically consist of parallel connecting several transmitters to a single antenna sy stem through suitable ban d pass filters, each on tuned transmitter frequency to witch it's connected. The parallel connection is obtained by means of coaxial lines of determined length, so as provide for adequate isolation between transmitters.

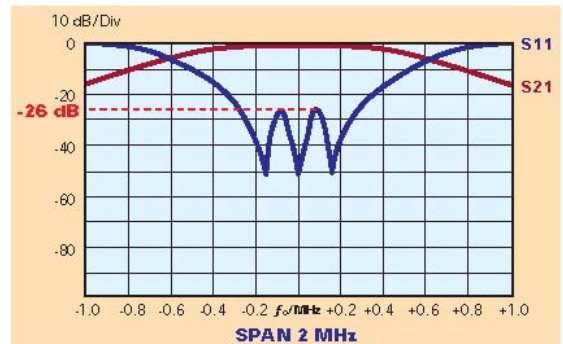
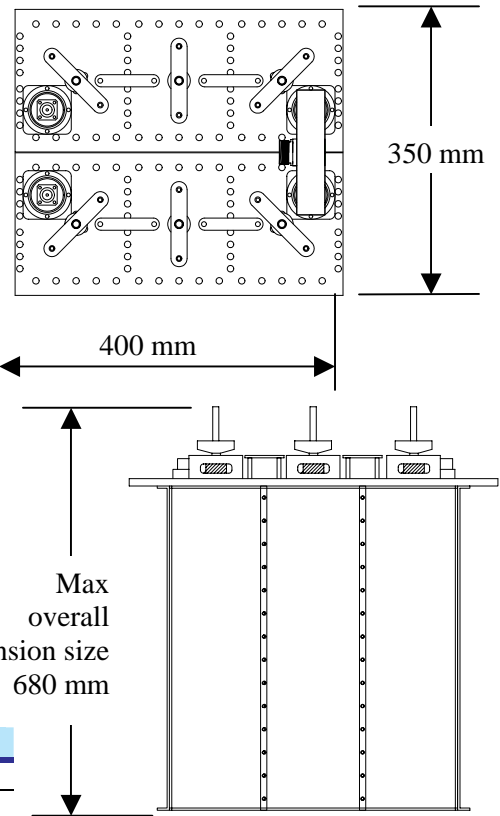
TYPICAL SPECIFICATIONS	
Model	FDCSTC05 – Type STAR POINT
Impedance	50 Ohm
Frequency Range	87.5-108 MHz
VSWR ±150 KHz	1.1:1 max
Insertion Loss	at $f_0$ 0.65 dB max
Return Loss ±150Khz	≤ -26 dB
Isolation ±1.6MHz	≥ 30 dB
No. Input	2
No. Output	1
Connectors standard	Input N Output 7/16 (See table)
Max Power	600 W × 2 CHANNELS
Working Temperature	-20°C ÷ +50°C
Colour	Enamel Gray Ral 7001
Materials	Aluminium, Brass, Copper, PTFE, Stainless Steel, Silvering (min 12µm thickness)

### Features:

- Distortion – Free Transmission
- Low loss, high isolation
- Natural convection

Standard version	
Dimensions	400×350×680 mm (15.7×13.8×26.8 inch) (H×L×W)
Net Weight	≅ 40 Kg

Rack version (optional)	
Panel Size	8 HE (1 HE=44,45 mm)
Net Weight	≅ 40 Kg



Typical shape of a curves for S11 and S12 parameters for single filter

“These specifications are subject to change without notice”

# AC89@: 87G87%

- COMBINER 2 CHANNEL
- TYPE STAR POINT
- FM BAND 87.5-108 MHz
- BAND II
- OPTION

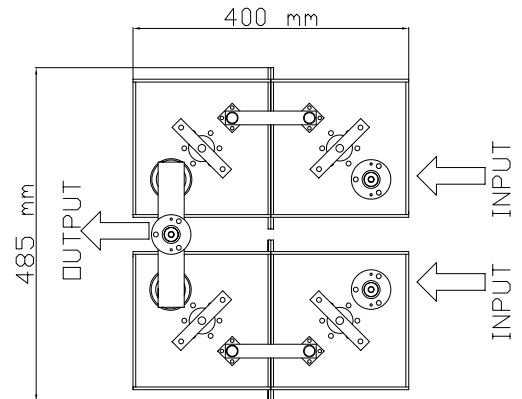
Model	Input Connector	Output Connector	Power Input	Power Output
FDCSDC%1	N 7/16"		600W	1200W
FDCSDC%2	N 7/8"		600W	1200W
FDCSDC%3	7/16" 7/16"		1KW	2KW
FDCSDC%4	7/16" 7/8"		2KW	4KW
FDCSDC%5	7/8" 1+5/8"		2KW	4KW

The star combiner basically consist of parallel connecting several transmitters to a single antenna system through suitable band pass

filters, each on tuned transmitter frequency to witch it's connected. The parallel connection is obtained by means of coaxial lines of determined length, so as provide for adequate isolation between transmitters.



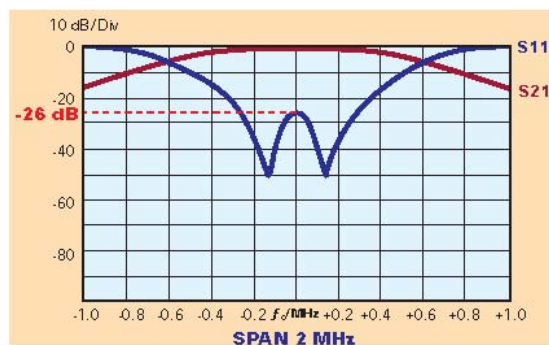
TYPICAL SPECIFICATIONS	
Model	FDCSDC1 – Type STAR POINT
Impedance	50 Ohm
Frequency Range	87.5-108 MHz
VSWR ±150 KHz	1:1.1 max
Insertion Loss	at $f_0$ 0.25 dB max
Return Loss ±150Khz	≤ -26dB
Isolation ±2MHz	≥ 30 dB
No. of input	2
No. of output	1
Connectors standard	Input 7/8" (See table) Output 7/8"
Max Power	2KW × 2 CHANNELS
Working Temperature	-20°C ÷ +50°C
Colour	Enamel Gray Ral 7001
Materials	Aluminium, Brass, Copper, PTFE, Stainless Steel, Silvering (min. 12µm thickness)



## Features:

- Distortion – Free Transmission
- Star-point system with double pass-band cavity filters (standard configurations)
- Star-point system with triple pass-band cavity filters
- Star-point system with pass stop
- Low loss, high isolation
- Natural convection
- Option Group delay equalizer

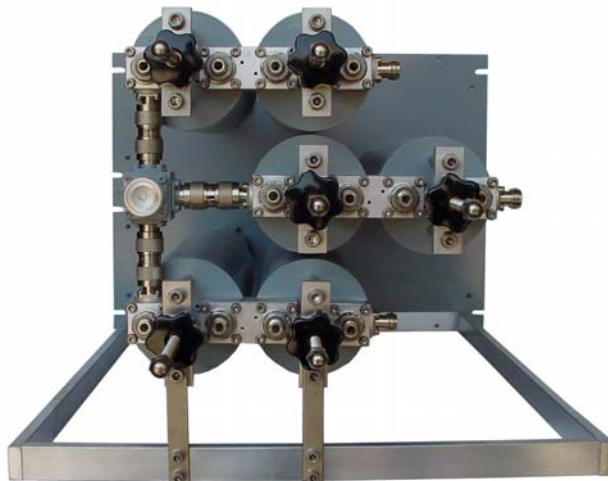
Dimensions	1300(Max size)×485×400 mm (51.2(Max size)×19.09×15.74 inch) (H×L×W)
Net Weight	≈ 45 Kg



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# MODEL FTCSDC03

- COMBINER 3 CHANNELS
- TYPE STAR POINT
- FM BAND 87.5÷108 MHz
- BAND II
- OPTION rack mounting



Model	Input Connector	Output Connector	Power Input	Power Output
FTCSDC03-1	N N		200W	600W
FTCSDC03-2	N 7/8"		300W	900W

The star combiner basically consist of parallel connecting several transmitters to a single antenna s system th rough suitable band d pass filters, each on tu ned transmitter frequency to witch it's connected.

The parallel connection is obtained by means of coaxial lines of determined length, so as provide for adequate isolation between transmitters.

## TYPICAL SPECIFICATIONS

Model	FTCSDC03 – Type STAR POINT	
Impedance	50 Ohm	
Frequency Range	87.5-108 MHz	
VSWR ±150 KHz	1.1:1 max	
Insertion Loss	at $f_0$ 0.6 - 0.7 dB max	
Return Loss ±150Khz	≤ -26 dB	
Isolation ±2.5MHz	≥ 30 dB	
Input Number	3	
Output Number	1	
Connectors Standard	Input N female	Output 7/16" (See table)
Max Power	300W X 3 Channels (Out 900W)	
Working Temperature	-20°C ÷ +50°C	
Colour	Enamel Gray Ral 7001	
Materials	Aluminium, Brass, Copper, P TFE, Stainless Steel, Silvering (min 12µm thickness)	

## Features:

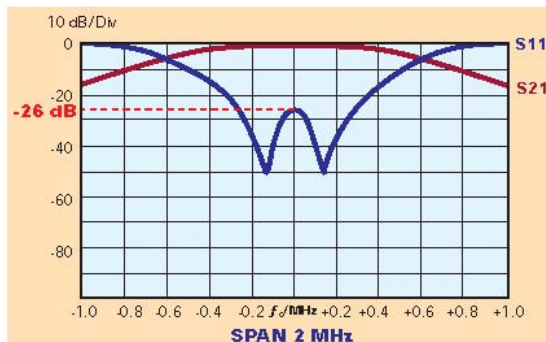
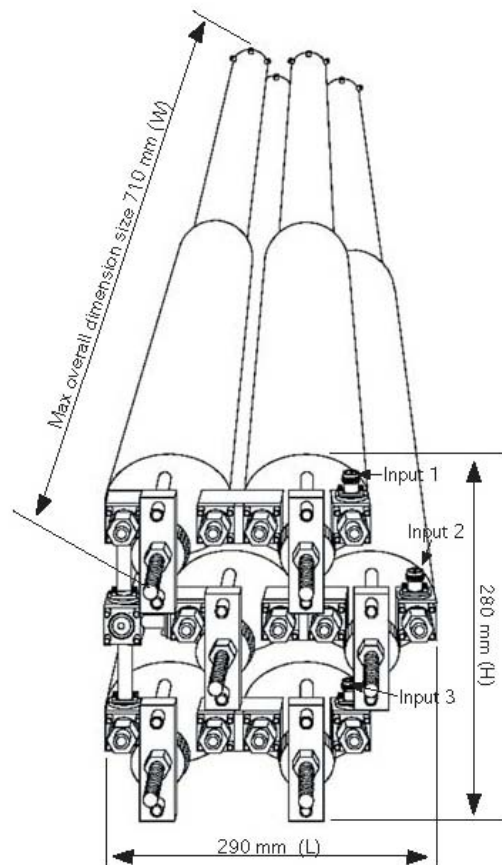
- Distortion – Free Transmission
- Star-point system with Band Pass double cavity filters
- Low loss, high isolation
- Natural convection
- Rack Version Option

### No rack version

Dimensions	280×290×710 mm (11×11.4×28 inch) (H×L×W)
Net Weight	≅ 18 Kg

### Rack version (optional)

Panel Size	7 HE (1 HE=44,45 mm)
Net Weight	≅ 18 Kg



Typical shape of a curves for S11 and S12 parameters for single filter

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# MODEL FTCSTC05

- COMBINER 3 CHANNELS
- TYPE STAR POINT
- RACK VERSION OPTION
- FM BAND 87.5÷108 MHz
- BAND II
- OPTION



VERSION WITH RACK AND DIRECTIONAL COUPLER (OPTIONS)

Model	Input Connector	Output Connector	Power Input	Power Output
FTCSTC05-1	7/16"	7/16"	600W	1800W
FTCSTC05-2	7/16"	7/8"	600W	1800W

The star point combiner basically consist of parallel connecting several transmitters to a single antenna system through suitable band pass filters, each on tuned transmitter frequency to witch it's connected. The parallel connection is obtained by means of coaxial

lines of determined length, so as provide for adequate isolation between transmitters.

## TYPICAL SPECIFICATIONS

Model	FTCSTC05 – Type STAR POINT		
Impedance	50 Ohm		
Frequency Range	87.5-108 MHz		
VSWR ±150KHz	1.1:1 max		
Insertion Loss	at $f_0$ 0.65 dB max		
Return Loss ±150KHz	≤ -26 dB		
Isolation ±2.5MHz	≥ 30 dB		
Input Number	3		
Output Number	1		
Connectors Standard	Input N Output 7/16" (See table)		
Max Power	600 W X 3 Channels		
Working Temperature	-20°C ÷ +50°C		
Colour	Enamel Gray Ral 7001		
Materials	Aluminium, Brass, Copper, PTFE, Stainless Steel, Silvering (min. 12µm thickness).		

### Features:

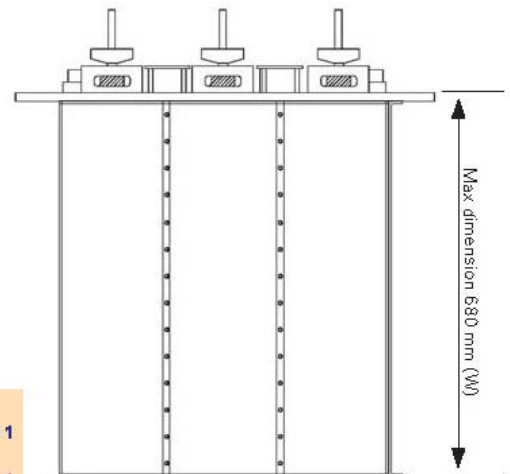
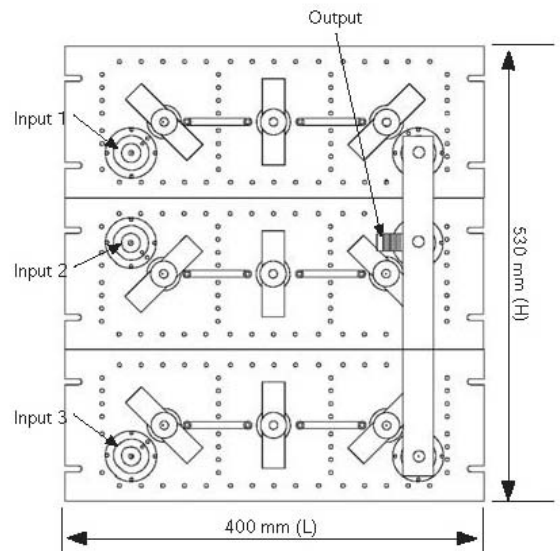
- Distortion – Free Transmission
- Star point system with triple pass-band cavity filters
- Star point system with pass stop
- Low loss, high isolation
- Natural convection
- Modular design
- OPTION Group delay equaliser

### No rack version

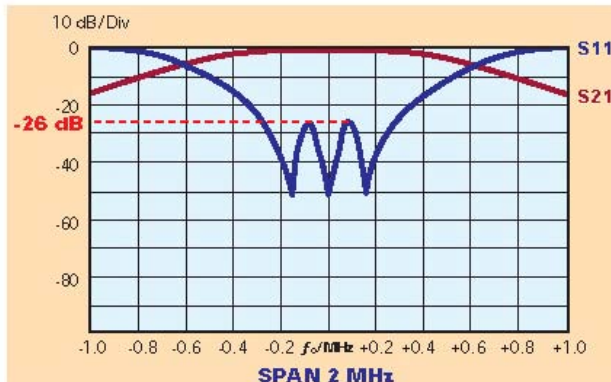
Dimensions	530×400×680 mm (20.8×15.7×26.8 inch) (H×L×W)
Net Weight	≈ 70 Kg

### Rack version (optional)

Panel Size	12 HE (1 HE=44,45 mm)
Net Weight	≈ 70 Kg



Typical shape of a curves for S11 and S12 parameters



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## AC89@: H7G87%

- COMBINER 3 CHANNELS
- TYPE STAR POINT
- FM BAND 87.5÷108 MHz
- BAND II
- OPTION

Model	Input Connector	Output Connector	Power Input	Power Output
FTCSDC%1	N	7/16"	600W	1800W
FTCSDC%2	N	7/8"	600W	1800W
FTCSDC%3	7/16"	7/16"	600W	1800W
FTCSDC%4	7/16"	7/8"	1.5KW	4.5KW
FTCSDC%5	7/8"	7/8"	1.5KW	4.5KW

The star combiner basically consist of parallel connecting several transmitters to a single antenna system through suitable band pass filters, each on tuned transmitter frequency to which it's

connected. The parallel connection is obtained by means of coaxial lines of determined length, so as provide for adequate isolation between transmitters.

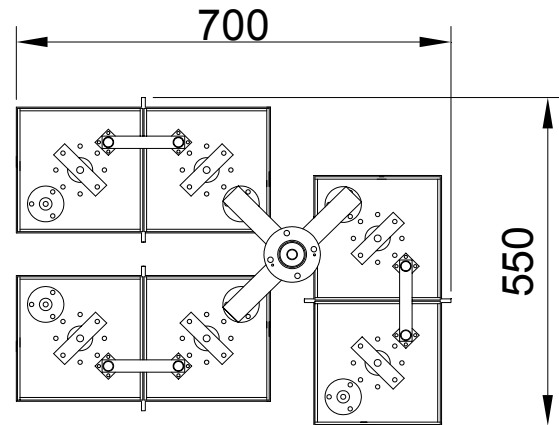


### TYPICAL SPECIFICATIONS

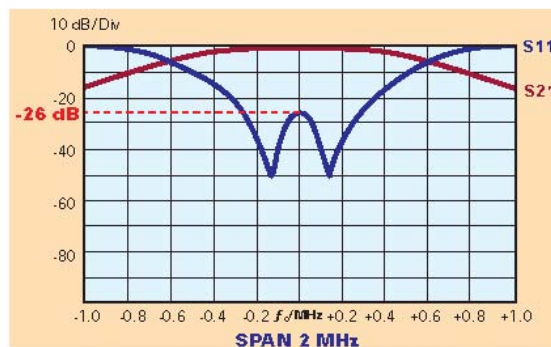
<b>Models</b>	FTCSDC2 – Type STAR POINT	
<b>Impedance</b>	50 Ohm	
<b>Frequency Range</b>	87.5-108 MHz	
<b>VSWR +150KHz</b>	1.1:1 max	
<b>Insertion Loss</b>	at $f_0$ 0.28 dB max	
<b>Return Loss +150KHz</b>	< -26dB	
<b>Isolation +2.5MHz</b>	> 30 dB	
<b>No. of Input</b>	3	
<b>No. of Output</b>	1	
<b>Connectors Standard</b>	Input 7/8"	Output EIA 1+5/8" (See table)
<b>Max Power</b>	2 KW x 3 Channels	
<b>Working Temperature</b>	-20°C ÷ +50°C	
<b>Colour</b>	Enamel Gray Ral 7001	
<b>Materials</b>	Aluminium, Brass, Copper, PTFE, Stainless Steel, Silvering (min 12µm thickness)	

### Features:

- Distortion – Free Transmission
- Star point system with double pass-band cavity filters (standard configurations)
- Star point system with triple pass-band cavity filters
- Star point system with pass stop
- Low loss, high isolation
- Natural convection
- Option Group delay equalizer



<b>Dimensions</b>	1300(Max size)×700×550 mm (51.2(Max size)×27.5×21.6 inch) (H×L×W)
<b>Net Weight</b>	≈ 63 Kg



Typical shape of a curves for S11 and S12 parameters for single filter

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# MODEL FTCSDC5

- COMBINER 3 CHANNELS
- TYPE STAR POINT
- FM BAND 87.5÷108 MHz
- BAND II
- OPTION



Model	Input Connector	Output Connector	Power Input	Power Output
FDCSDC5-1	7/8" 1+5/8"		5KW	15KW
FDCSDC5-2	1+5/8" 1+5/8"		5KW	15KW

The star combiner basically consist of parallel connecting several transmitters to a single antenna system through

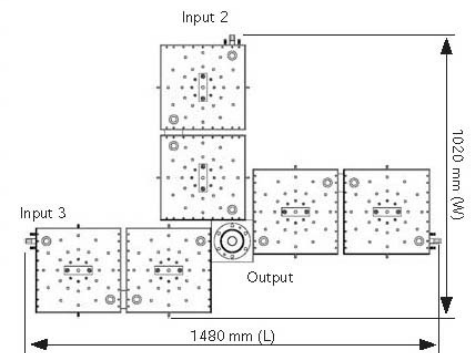
suitable band pass filters, each on tuned transmitter frequency to witch it's connected. The parallel connection is obtained by means of coaxial lines of determined length, so as provide for adequate isolation between transmitters.

## TYPICAL SPECIFICATIONS

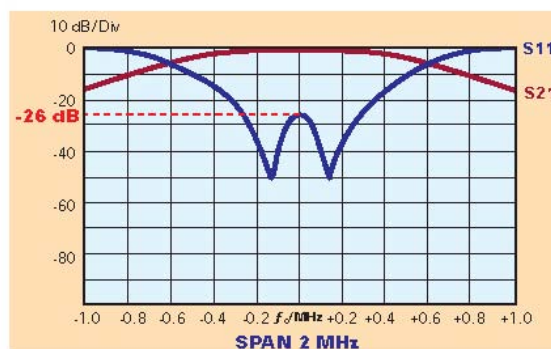
Model	FTCSDC5 – Type STAR POINT	
Impedance	50 Ohm	
Frequency Range	87.5-108 MHz	
VSWR ±150 KHz	1.1:1 max	
Insertion Loss	at $f_0$ 0.15 dB max	
Return Loss ±150Khz	≤ -26 dB	
Isolation ±1.5 MHz	≥ 30 dB	
Input Number	3	
Output Number	1	
Connectors Standard	Input 1+5/8" Output 3+1/8"	(See table)
Max Power	5KW × 3 Channels	
Working Temperature	-20°C ÷ +50°C	
Colour	Enamel gray ral 7001	
Materials	Aluminium, Brass, Copper, PTFE, Stainless Steel, Silvering (min 12µm thickness)	

### Features:

- Distortion – Free Transmission
- Star point system with double pass-band cavity filters
- Star point system with triple pass-band cavity filters (standard configurations)
- Star point system with pass stop
- Low loss, high isolation
- Natural convection
- OPTION Group delay equaliser



Dimensions	1400(Max size)×1480×1020 mm (55.1(Max size)×58.3×40.2 inch) (H×L×W)
Net Weight	≅ 140 Kg



Typical shape of a curves for S11 and S12 parameters for single filter