

MODEL FDDPDC03

- **COMBINER 2 CHANNELS**
- **DOUBLE BALANCED BRIDGE**
- **FM BAND 87.5÷108 MHz**
- **BAND II**
- **RACK VERSION (OPTIONAL)**

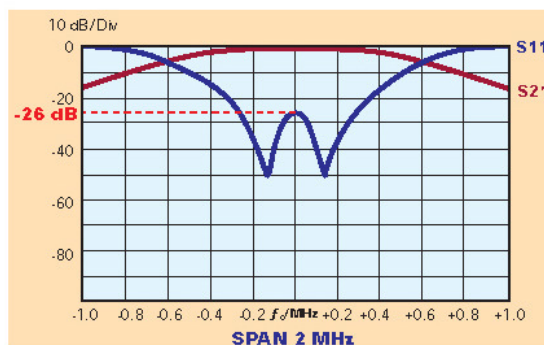
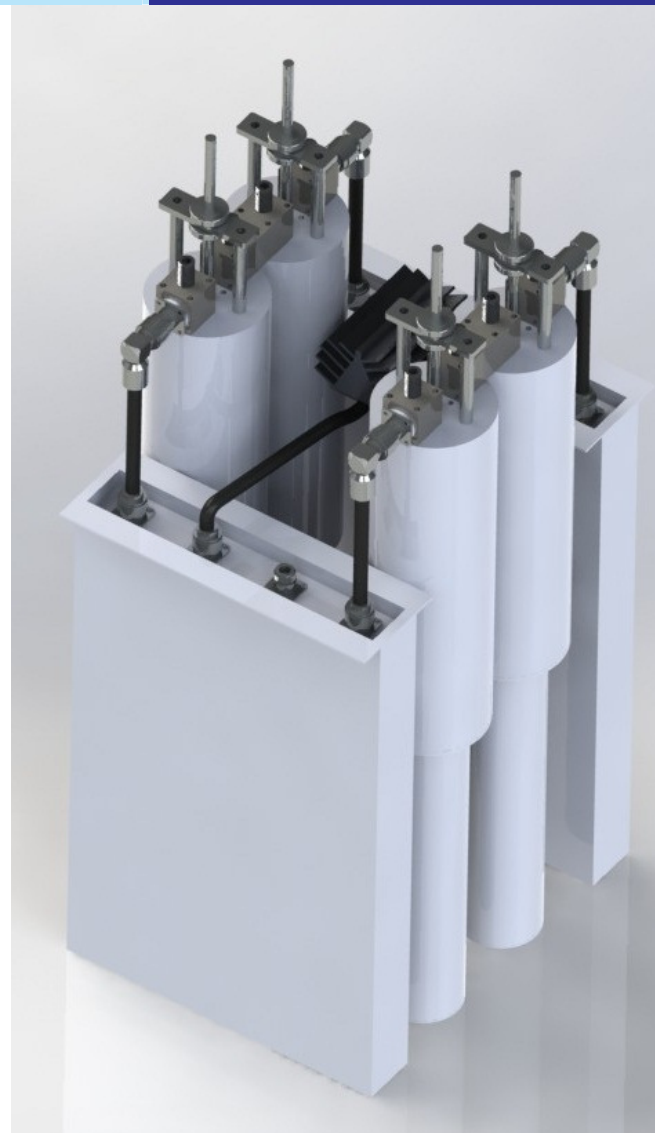
The double balanced bridge system consist of two band-pass filter, two -3dB coupler and a absorber. One of both inputs has a narrow-band characteristic (complying with the pass-band functions of the band pass filters), while the remaining input features a broadband characteristic within the operating frequency range of -3dB couplers, both inputs exhibits a frequency independent load impedance to the RF source.

TYPICAL SPECIFICATIONS

Model	FDDPDC03 – Type DOUBLE BRIDGE
Impedance	50 Ohm
Frequency Range	87.5-108 MHz
VSWR ±150Khz	1.1:1 max
Insertion Loss	at f_0 0.65 – 0.75 dB max (Narrow Band Input) 0.1 dB Max (Broad Band Input)
Return Loss ±150Khz	≤ -26 dB
Isolation ±3MHz	≥ 30 dB
Input Number	2 (Narrow Band + Broad Band)
Output Number	1
Connectors	Input N female – 7/16" – 7/8" Output N - 7/16" – 7/8"
Max Power	300 W X 2 Channels
Working Temperature	-20°C ÷ +50°C
Colour	Silver
Materials	Aluminium, Brass, Copper, PTFE, Stainless Steel, Silvering (min. 12µm thickness)

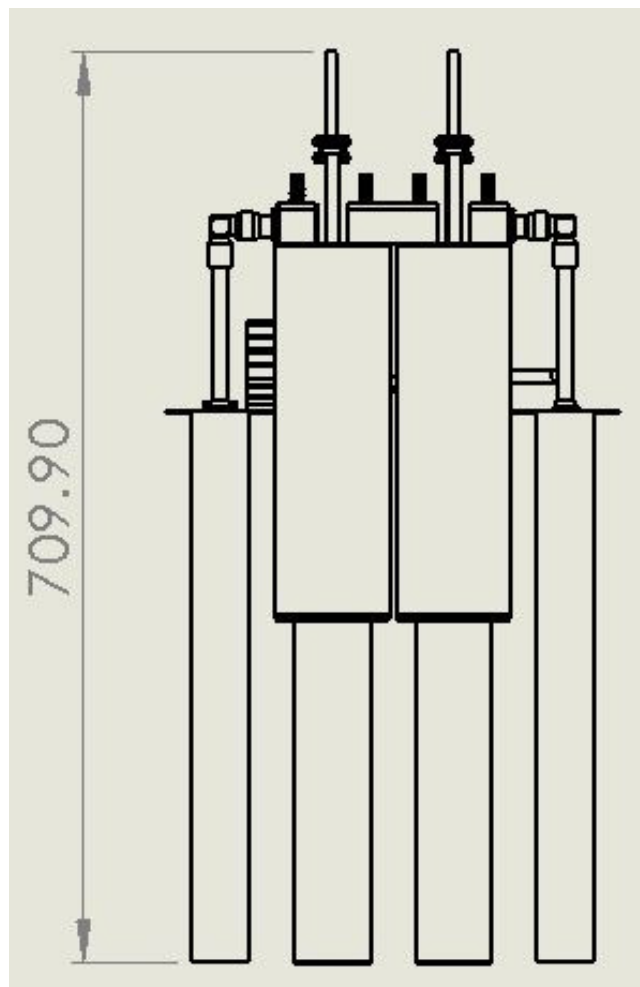
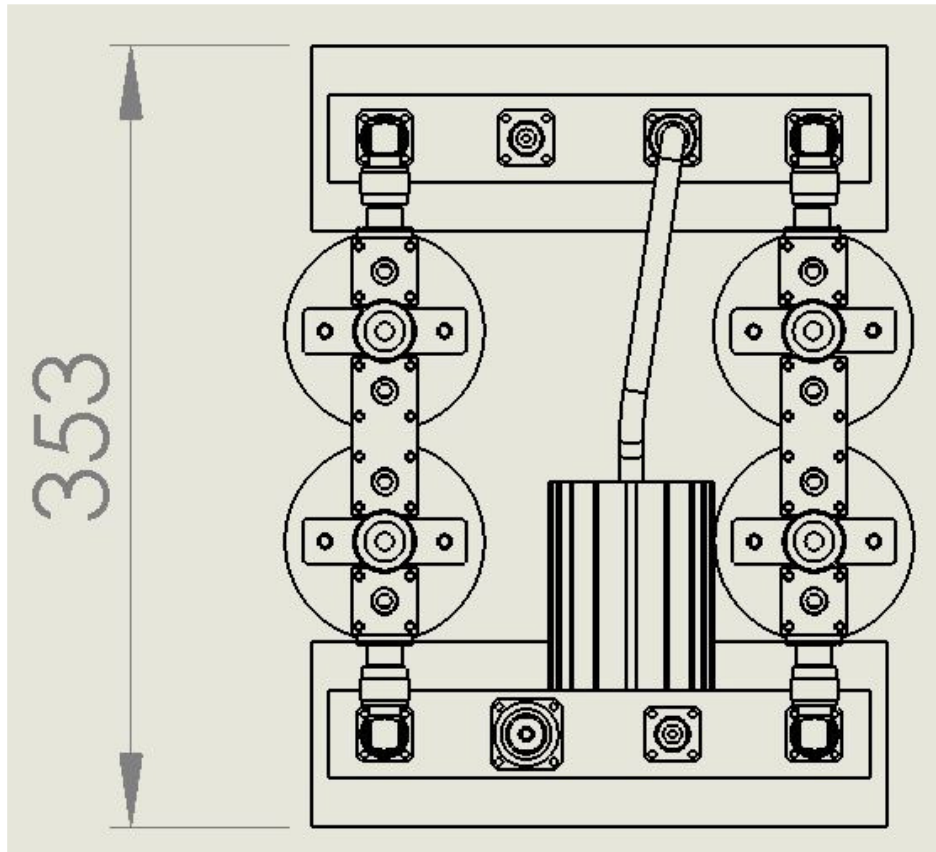
Features:

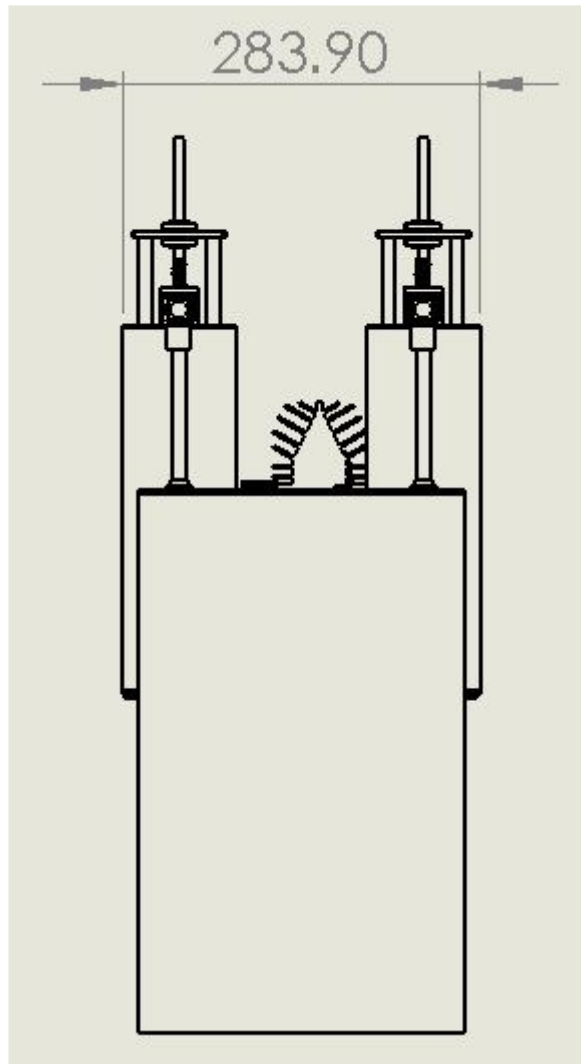
- Distortion – Free Transmission
- Double Balanced Bridge system with double pass-band cavity filters (standard configurations)
- Double Balanced Bridge system with triple pass-band cavity filters
- Double Balanced Bridge system with pass stop
- Low loss, high isolation
- Natural convection
- Option: Group delay equaliser
- Frequency independent input impedance
- The frequency at the broadband input can be varied without retuning of the pass-band cavity filters.



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

DIMENSIONS





No rack version

Dimensions	710×284×353(Max size) mm (27.9×11.1×13.8(Max size) inch) (H×L×W)
Net Weight	≅ 21 Kg

Rack version (optional)

Panel Size	8 HE (1 HE=44,45 mm)
Net Weight	≅ 21 Kg

VIEWS OF THE SYSTEM

