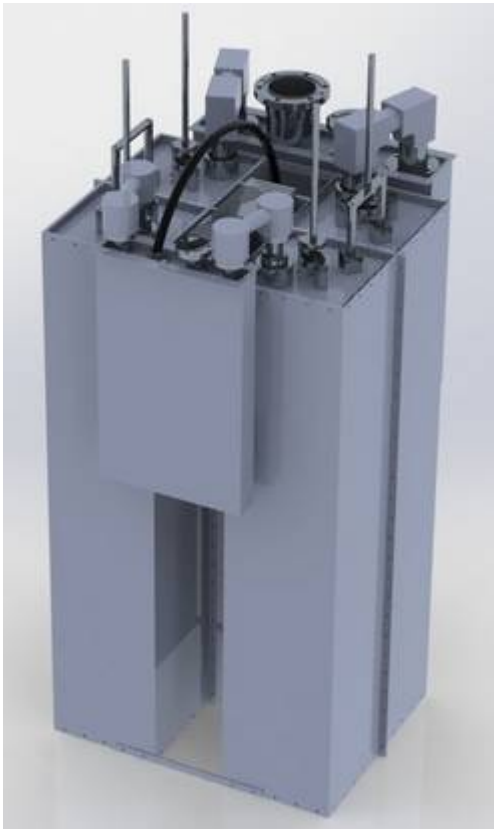
MODEL FDDPDC2-AD



- 2 CHANNELS COMBINER
- IMPEDANCE 50 Ohm
- FM BAND 87.5 ÷ *108*
- BAND II
- DOUBLE BRIDGE TYPE

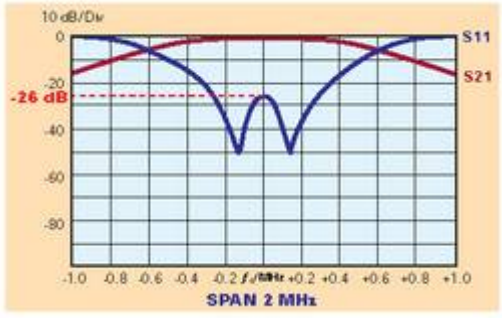
The Double Balanced Bridge System consists of two Band Pass Filters, two -3dB Couplers and an Absorbing Load. One of both inputs has narrow-band characteristics (complying with the band-pass functions of the band-pass filters), while the remaining input presents broadband characteristics within the operating frequency range of -3dB couplers. Both inputs exhibit a frequency independent load impedance to the RF source.

TYPICAL SPECIFICATIONS

Model	FDDPDC2-AD – Type DOUBLE BRIDGE
Impedance	50 Ohm
Frequency Range	87.5-108 MHz
VSWR ± 150 KHz	1.1:1 max
Insertion Loss	at f_0 0.3 dB Max (Narrow Band Input) 0.08 dB Max (Broad Band Input)
Return Loss ± 150 KHz	≤ -26 dB
Isolation ± 2 MHz	≥ 32 dB
No. of Input	2 (Narrow Band + Broad Band)
No. of Output	1
Connectors	Narrow Band Input 7/8" (Opt . 1+5/8") Broad Band Input 1+5/8" Output 3+1/8"
Max Power	3 KW Narrow Band 12 KW Broad Band
Working Temperature	-20°C ÷ +50°C
Colour	Enamel Gray Ral 7001
Materials	Aluminium, Brass, Copper, PTFE, Stainless Steel, Silvering (min 12μm thickness)

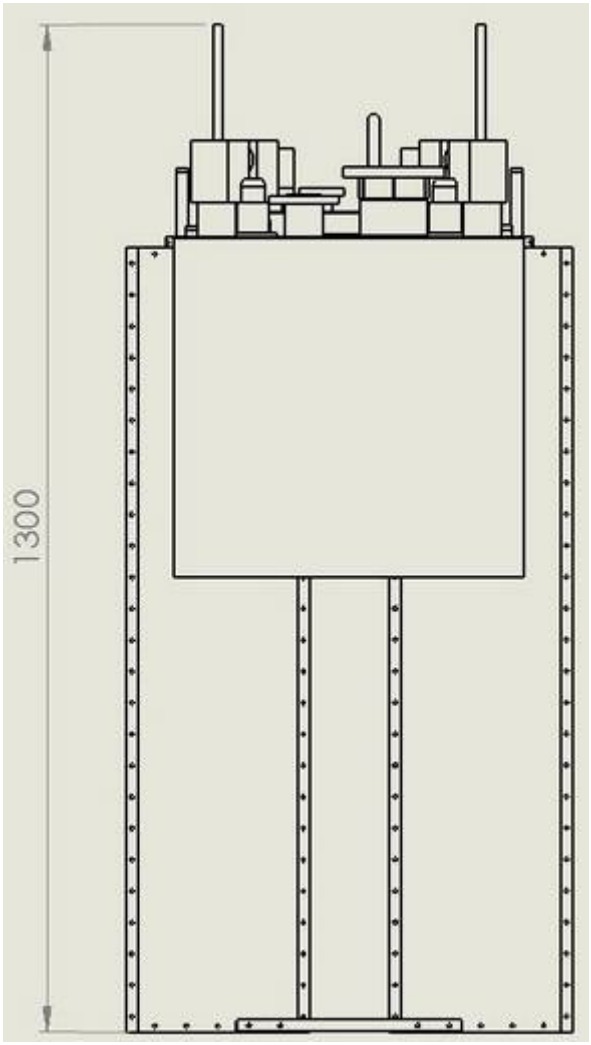
Features:

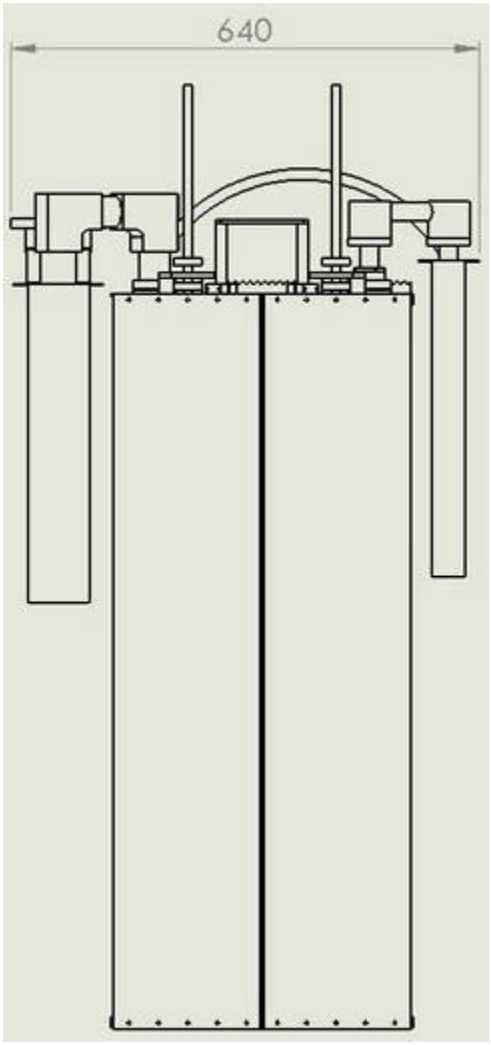
- Distortion – Free Transmission
- Double Balanced Bridge system with pass stop
- Frequency independent input impedance
- The frequency at the broadband input can be varied without retuning of the pass-band cavity filters.
- The broadband input can be used as spare input for expansion without requiring modification of the existing pass-band cavity filters
- If only narrow band input is being used, an extremely high coupling attenuation (directional coupler attenuation plus filter attenuation) can be achieved for very small frequency spacings.
- Low loss, high isolation
- Natural convection
- Option: Group delay equaliser

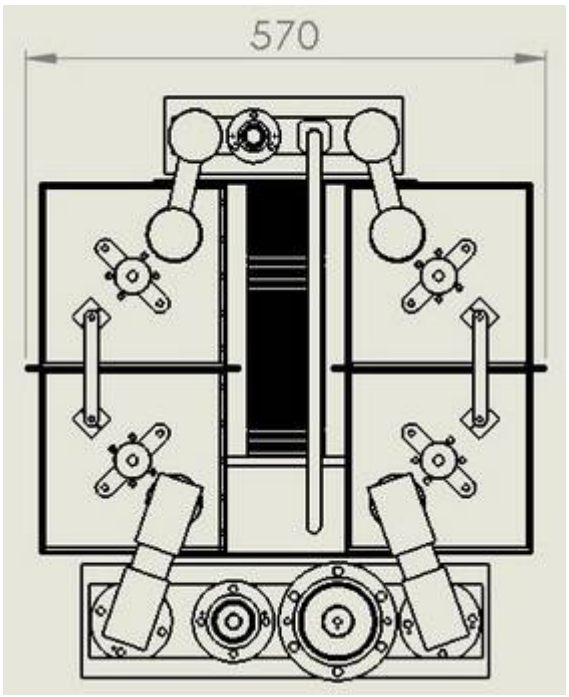


Typical shape of a curves for S11 and S12 parameters for single filter

DIMENSIONS (mm)

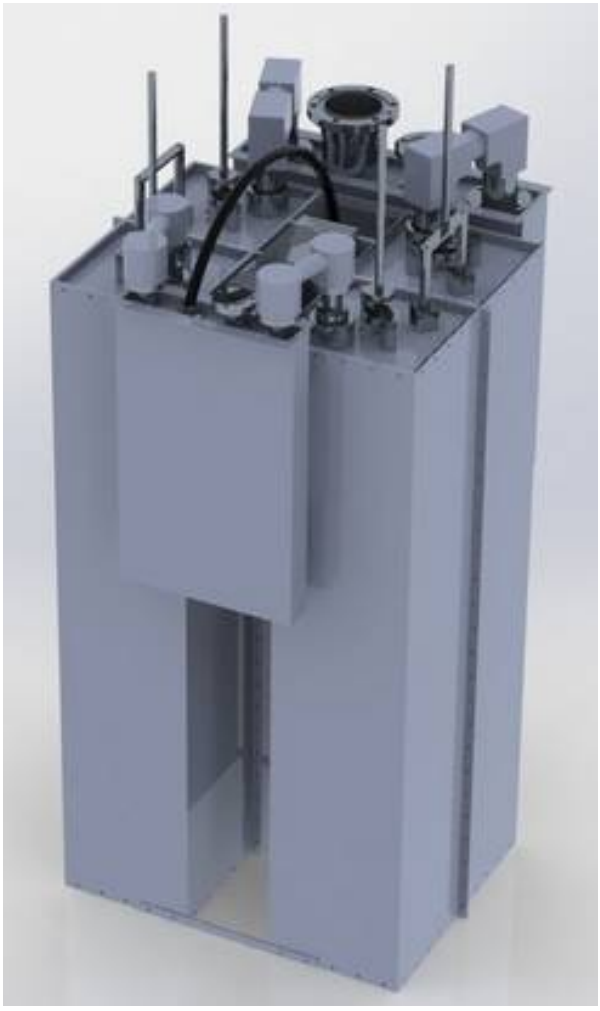


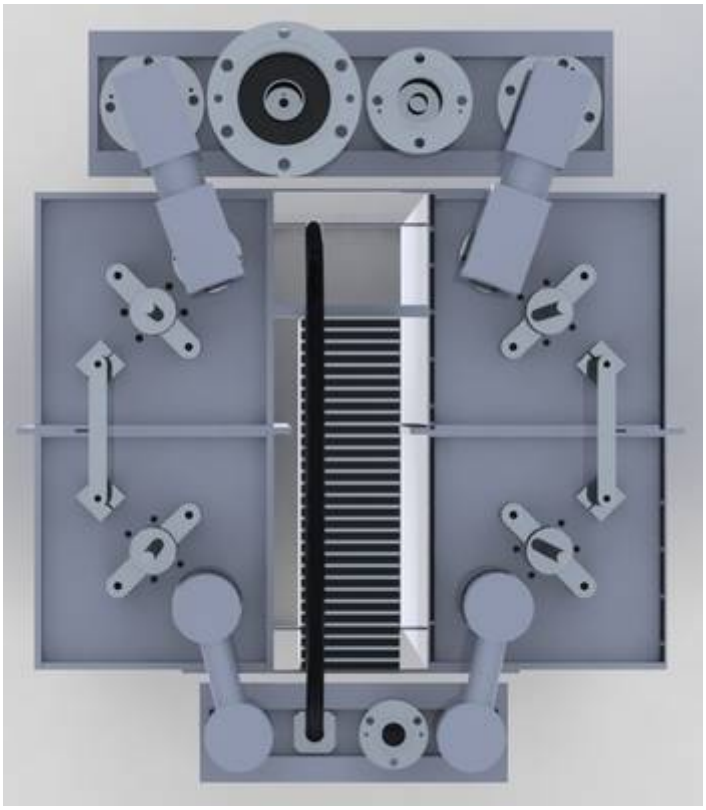


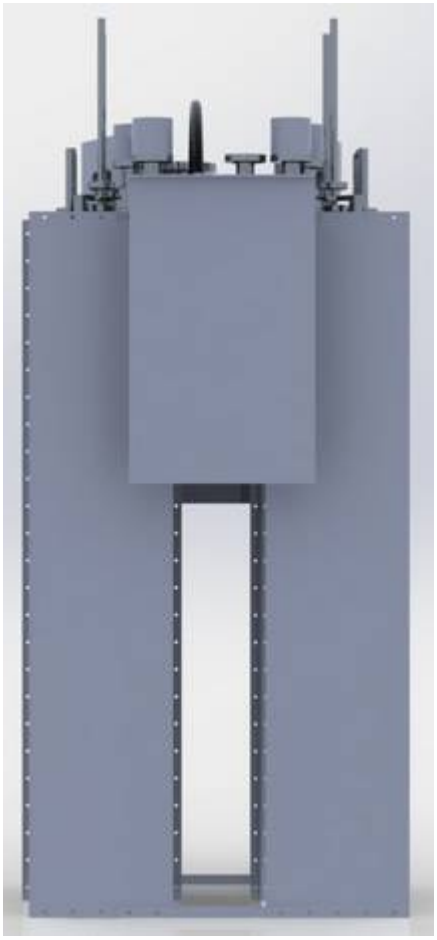


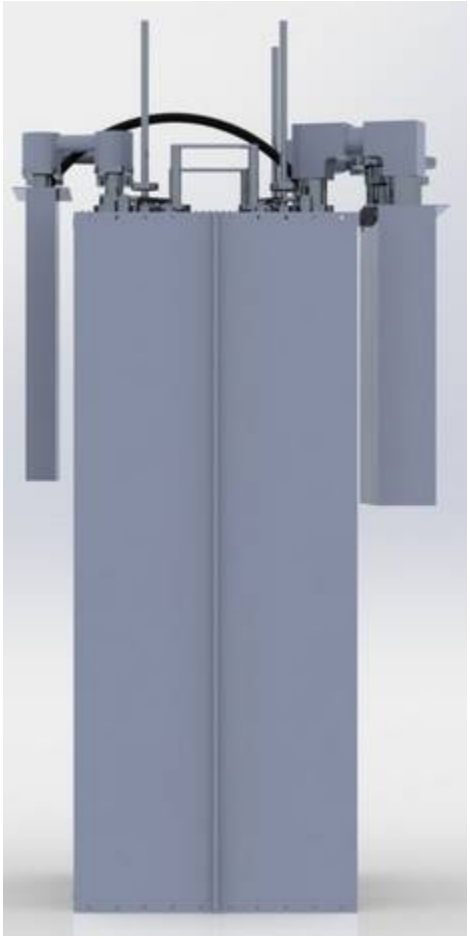
Dimensions	1300 (Maz size)×640×570 mm (51.1(Max size)×25.1×26.3 inch) (H×L×W)
Net Weight	≅ 65 Kg approx.

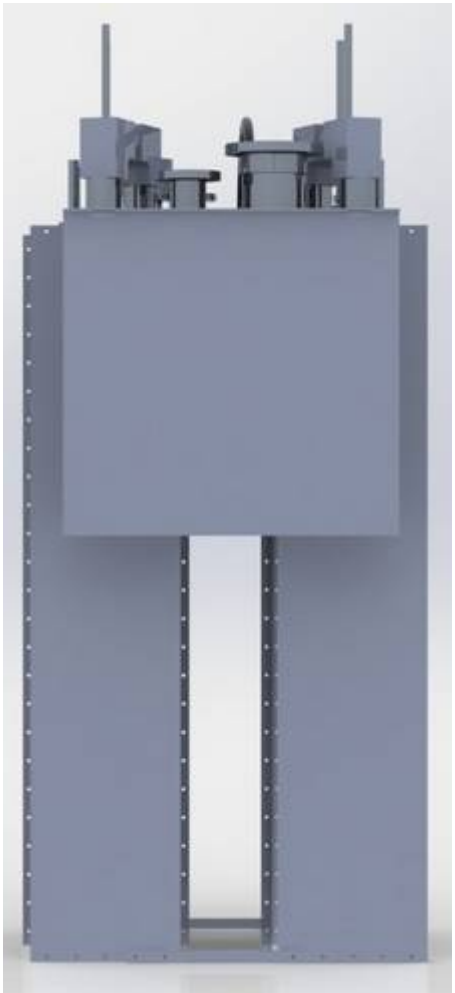
VIEWS OF THE SYSTEM

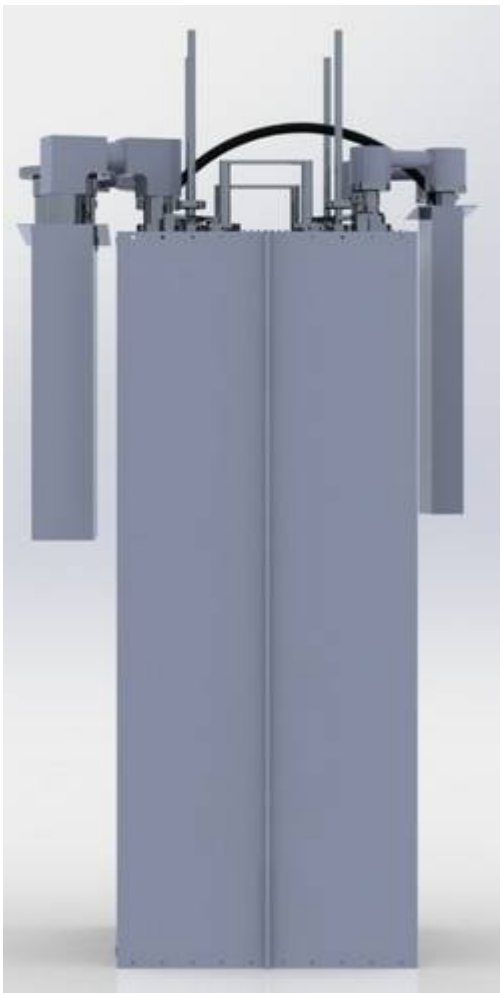


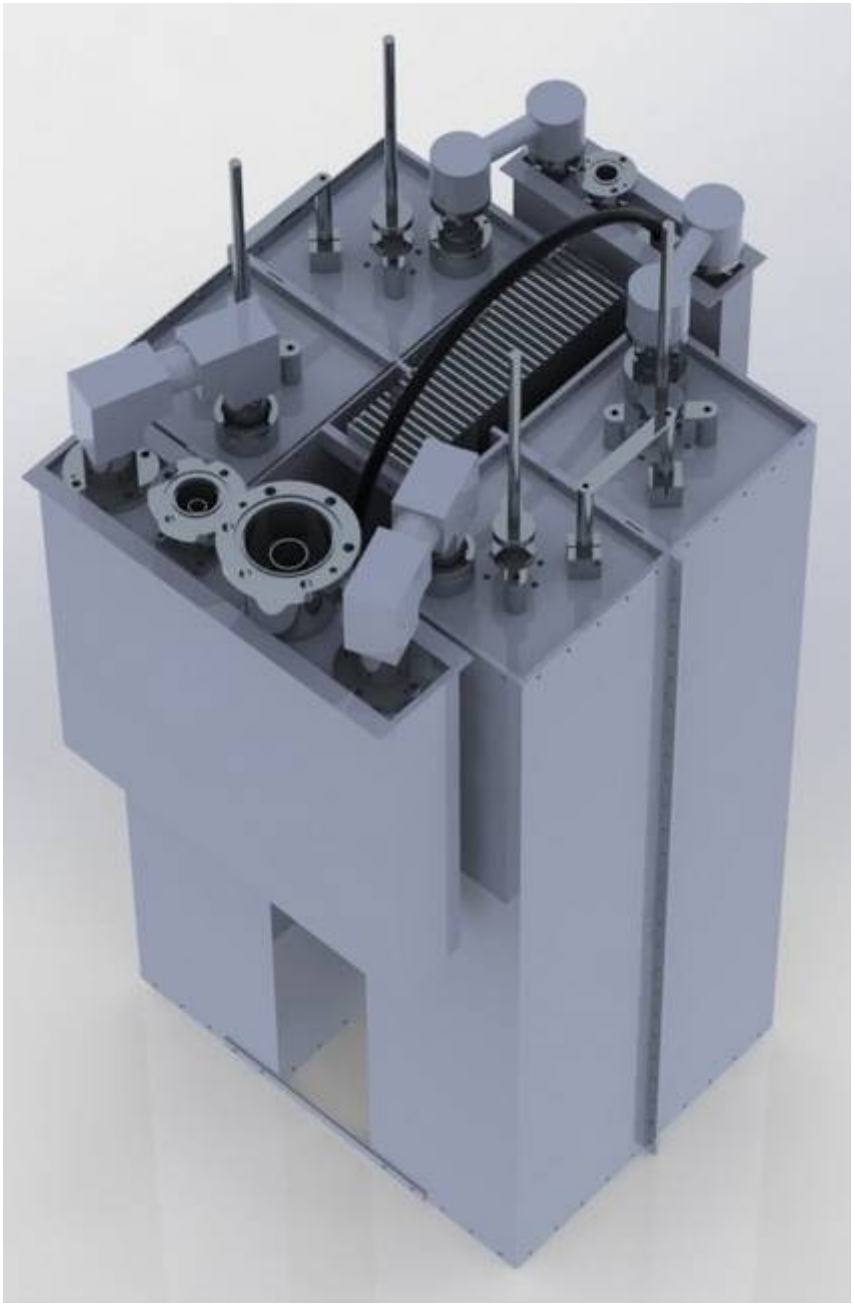












R.V.R. ELETTRONICA S.p.a. – Via del Fonditore, 2/2c – Zona Roveri
40138 BOLOGNA – ITALY
TEL.: (+39) 051 6010506 FAX: (+39) 051 6011104
e-mail: info@rvr.it – http://www.rvr.it

Sales Office and Plants: Telecomunicazioni Ferrara S.r.l. Via Dei Calzolai, 156
44100 FRANCOLINO (FERRARA) – ITALY
TEL. : (+39) 0532.72.40.33 FAX: (+39) 0532.72.48.19
E-Mail: info@telecfe.it www.telecfe.it

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