

# MODEL FTDPDC2-AC

- **COMBINER 2 CHANNELS**
- **DOUBLE BALANCED BRIDGE**
- **FM BAND 87.5÷108 MHz**
- **BAND II**

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.

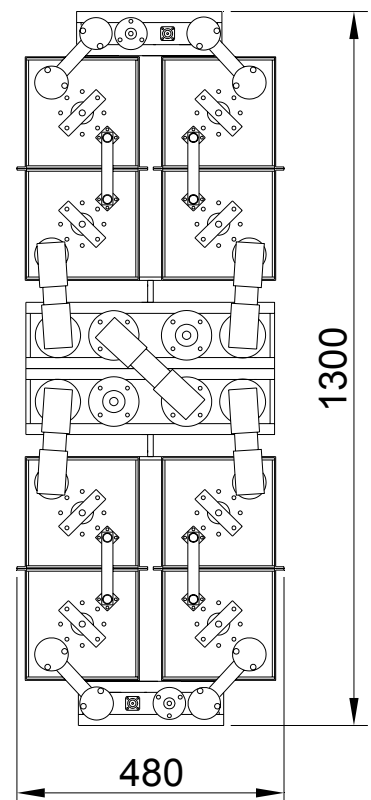
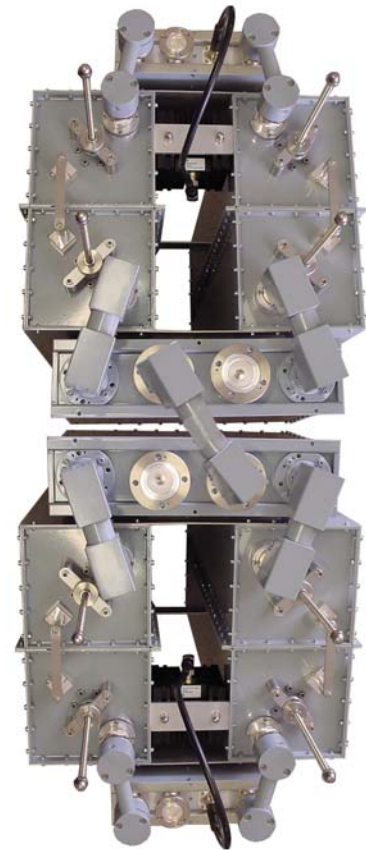
## TYPICAL SPECIFICATIONS

<b>Model</b>	FTDPDC2-AC – Type DOUBLE BRIDGE
<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 $f_0$ 0.3 dB Max (Narrow Band Input) 0.08 dB Max (Broad Band Input)
<b>Return Loss ± 150 KHz</b>	≤ -26 dB
<b>Isolation ± 2 MHz</b>	≥ 32 dB
<b>No. of Input</b>	3 (2 Narrow Band + 1 Broad Band)
<b>No. of Output</b>	1
<b>Connectors</b>	Narrow Band Input 7/8" (Opt . 1+5/8") Broad Band Input 1+5/8" Output 1+5/8"
<b>Max Power</b>	4 KW Narrow Band 5 KW Broad Band
<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
- 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

<b>Dimensions</b>	1300(Max size)×1300×480 mm (51.2(Max size)×51.2×18.9 inch) (H×L×W)
<b>Net Weight</b>	≅130 Kg



"These specifications are subject to change without notice"