

MODEL FDDPDC2-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.

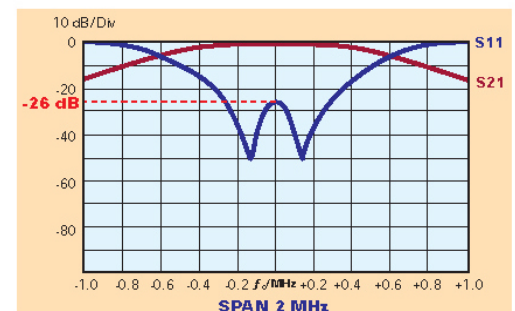
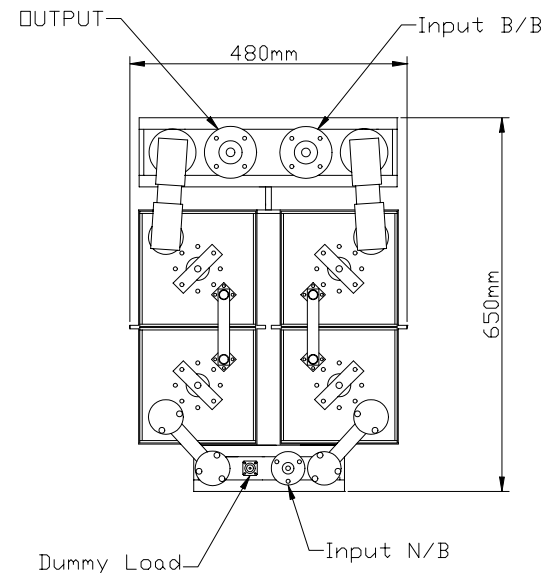
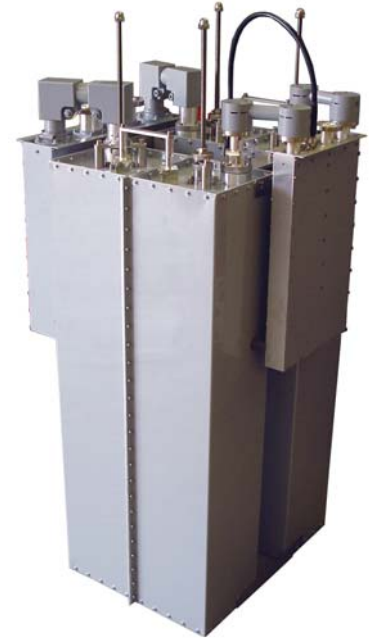
TYPICAL SPECIFICATIONS

Model	FDDPDC2-AC – 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 1+5/8"
Max Power	4 KW Narrow Band 8 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

Dimensions	1300(Max size)×650×480 mm (51.2(Max size)×25.6×18.9 inch) (H×L×W)
Net Weight	≅65 Kg



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