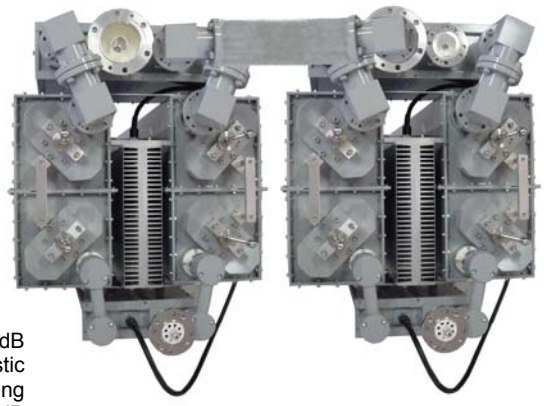
MODEL FTDPDC3-BD

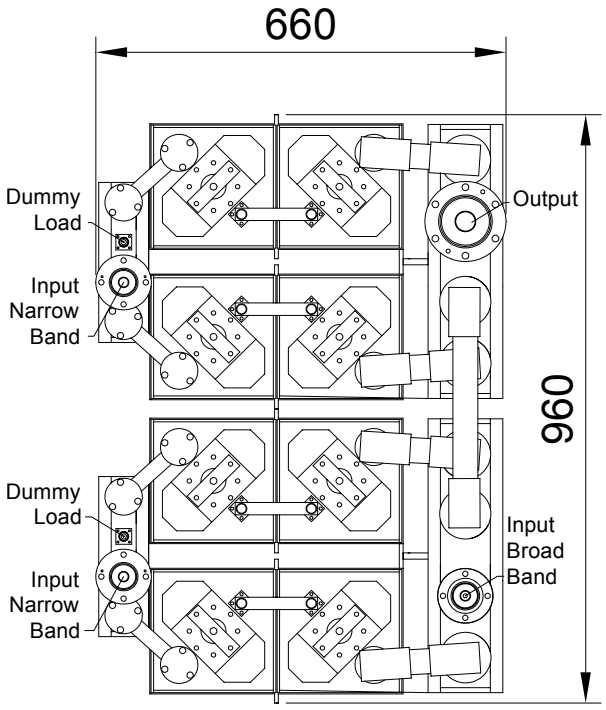


- **2 CHANNELS COMBINER**
- **DOUBLE BALANCED BRIDGE**
- **FM BAND 87.5÷108 MHz**
- **BAND II**

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

TYPICAL SPECIFICATIONS

Model	FTDPDC3-BD – Double Bridge Type
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 (Narrow Band Input) 0.1 dB Max (Broad Band Input)
Return Loss ± 150 KHz	≤ -26 dB
Isolation ± 2 MHz	N/B → B/B ≥ 32 dB B/B → N/B ≥ 40 dB
No. of Input	3 (2 Narrow Band + 1 Broad Band)
No. of Output	1
Connectors	1+5/8" Narrow Band Input 1+5/8" Broad Band Input 3+1/8" Output (Opt. 1+5/8")
Max Power	5 KW on Narrow Band 15 KW on 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
- Frequency Independent Input Impedance
- Frequency at the broadband input can be varied without retuning the band-pass cavity filters.
- Broadband input can be used as spare input for expansion without requiring modification of existing band-pass 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

Dimensions	1300(Max size)×960×660 mm (51.2(Max size)×37.8×26.0 inch) (H×L×W)
Net Weight	≅130 Kg