

MODEL FDDPTC05

- **Combiner 2 Channels**
- **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 inputs has a narrow-band characteristic (complying with the band-pass functions of the band-pass filters), while the other input has 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	FDDPTC05AA – Double Bridge Type
Impedance	50 Ohm
Frequency Range	87.5-108 MHz
VSWR ± 150 KHz	1.1:1 max
Insertion Loss	at f_0 0.65 dB Max Narrow Band Input at f_0 0.1 dB Max Broad Band Input
Return Loss ± 150 KHz	≤ -26 dB
Isolation ± 1.2 MHz	N/B → B/B ≥ 30 dB B/B → N/B ≥ 40 dB
Number of Inputs	2
Number of Outputs	1
Connectors	Narrow Band Input N female (Opt. 7/16") Broad Band Input N female (Opt. 7/16" – 7/8") Output N (Opt. 7/16" - 7/8")
Max Power	Narrow Band Input 1000 W Broad Band Input 3KW
Working Temperature	-20°C ÷ +50°C
Colour	Enamel Gray Ral 7001
Materials	Aluminium, Brass, Copper, PTFE, Stainless Steel, Silvering (min 12µm thickness)

Features:

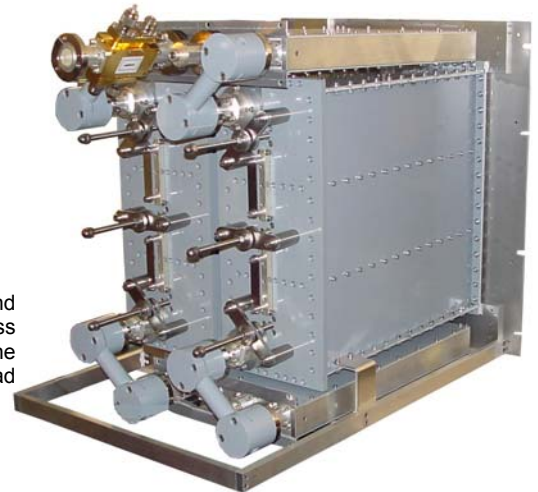
- Distortion – Free Transmission
- Double Balanced Bridge
- Frequency Independent Input Impedance
- Low Loss, High Isolation
- Natural Convection
- Frequency at broadband input can be varied without retuning band-pass cavity filters
- Broadband input can be used as spare input for expansion without requiring modifications of existing band-pass cavity filters
- If narrow band input is the only one being used, an extremely high coupling attenuation (directional coupler attenuation plus filter attenuation) can be achieved for very small frequency spacing

No rack version

Dimensions	680(Max size)×530×350 mm (26.8(Max size)×20.9×13.8 inch) (H×L×W)
Net Weight	≅ 60 Kg

Rack version (optional)

Dimensions	12 HE (1 HE=44.45 mm)
Net Weight	≅ 60 Kg



VERSION WITH RACK AND COUPLER (OPTION)

