

Model FDDPTC1-5.5/F-FDDPTC2-5.5/F

- **Combiner 2 Channels**
- **Double Balanced Bridge**
- **FM Band 87.5÷108 Mhz**
- **Band II**

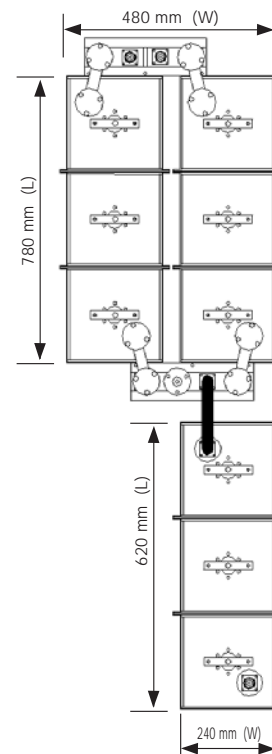
The double balanced bridge system consist of two band-pass filter, two -3dB coupler and a absorber. One of both inputs has a narrow-band characteristic (complying with the pass-band functions of the bandpass filters), while the remaining input features a broadband characteristic within the operating frequency range of -3dB couplers, both inputs exhibits a frequency independent load impedance to the RF source.

TYPICAL SPECIFICATIONS

Model	FDDPTC1-5.5/F-FDDPTC2-5.5/F – Type DOUBLE BRIDGE
Impedance	50 Ohm
Frequency Range	87.5+108 MHz
VSWR ±150 KHz	1.1:1 Max
Insertion Loss	at f_0 0.45 dB Max on input 1 at f_0 0.45 dB Max on input 2
Return Loss ±150 KHz	≤ -26 dB
Isolation ±2.5 MHz	From input 1 to input 2 33 dB From input 2 to input 1 43 dB
No. of input	2
Connectors	Input 7/16" (FDDPDC1-5.5/F) Input 7/8" EIA (FDDPDC2-5.5/F) 7/8" EIA Output
Max Power	1000 W 2 Channels (FDDPDC1-5.5/F) 2000 W 2 Channels (FDDPDC2-5.5/F)
Working Temperature	-20°C + +50°C
Colour	Enamel gray ral 7001
Materials	Aluminium, silver brass, copper, PTFE, stainless steel, silver plated (min 12μ 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



Double Bridge Dimensions	1300(Max size) x 780 x 480 mm (51.2(Max size) x 22.4 x 18.9 inch) (H x L x W)
Double Bridge Net Weight	70 Kg
Filter Dimensions	1300(Max size) x 610 x 235 mm (51.2(Max size) x 22.4 x 18.9 inch) (H x L x W)
Filter Net Weight	35 Kg

"These specifications are subject to change without notice"