

# Model FDDPTC1-5.5 - FDDPTC2-5.5

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

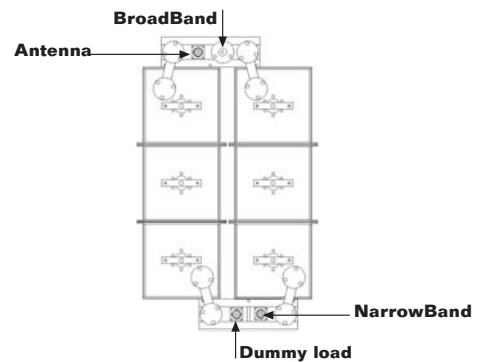
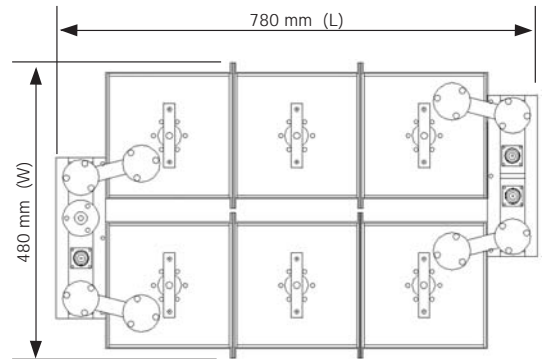
The double balanced bridge system consist of two band-pass filter, two -3dB coupler and a absorber. One of both inputs has a narrow-band characteristic (complying with the pass-band functions of the bandpass filters), while the remaining input features a broadband characteristic within the operating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

TYPICAL SPECIFICATIONS	
<b>Model</b>	FDDPTC1-5.5 - FDDPTC2-5.5 – 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 $f_0$ 0.45 dB Max (Narrow Band Input) 0.1 dB Max (Broad Band Input)
<b>Return Loss ±150 KHz</b>	≤ -26 dB
<b>Isolation ±2.5 MHz</b>	≤ 30 dB
<b>No. of input</b>	2 (NarrowBand+BroadBand)
<b>No. of output</b>	1
<b>Connectors</b>	Input 7/16" (FDDPDC1-5.5) Input 7/8" EIA (FDDPDC2-5.5) 7/8" EIA Output
<b>Max Power</b>	1000 W 2 Channels (FDDPDC1-5.5) 2000 W 2 Channels (FDDPDC2-5.5)
<b>Working Temperature</b>	-20°C ÷ +50°C
<b>Colour</b>	Enamel gray ral 7001
<b>Materials</b>	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

<b>Dimensions</b>	1300(Max size) x 780 x 480 mm (51.2(Max size) x 22.4 x 18.9 inch) (H x L x W)
<b>Net Weight</b>	≅ 70 Kg



"These specifications are subject to change without notice"