



237.08

# WJ-9040 MVU104 VHF/UHF MULTICOUPLER



## FEATURES

- 20 to 1400 MHz Frequency Range
- 7 dB Noise Figure
- Low Power, Compact Unit
- Optimum Coupling to Up to Four Receivers
- Mountable in Rear of WJ-9040 EFR100 Equipment Frame

## DESCRIPTION

The WJ-9040 MVU104 Multicoupler provides optimum coupling between a single antenna and as many as four receivers operating in the 20 to 1400 MHz

frequency range. The multicoupler provides a nominal gain of 2 dB and typically maintains a 7 dB or better noise figure throughout the entire 20 to 1400 MHz frequency range.

Maximum attention has been given to minimizing intermodulation distortion and to achieving high isolation between outputs. A third order point of +13 dBm, referenced to the input, has been obtained. Typically, 21 dB of isolation is provided between outputs.

The MVU104 is designed for use in the WJ-9040 EFR100 Equipment Frame where the unit fits in the option slot located at the rear of the frame. All power requirements are supplied from the WJ-9040 EPS100A Power Supply also mounted in this same frame.

## SPECIFICATIONS

Frequency Range.....	20 to 1400 MHz
Number of Inputs.....	One, SMA Female
Number of Outputs.....	Four, SMA Female
Gain* .....	2 dB $\pm$ 1.0 dB
Noise Figure.....	20 to 750 MHz: 6 dB typical, 7 dB maximum 750 to 1400 MHz: 7 dB typical, 8 dB maximum
Input/Output Impedance.....	50 Ohms, nominal
Input/Output VSWR.....	2:1 maximum
Isolation Between Ports	
20 to 200 MHz.....	18 dB minimum, 20 dB typical
200 to 1400 MHz.....	20 dB minimum, 25 dB typical
Size .....	3.5 inches (89 mm) high, 4.5 inches (114 mm) wide and 1 inch (25.4 mm) deep
Weight .....	1 lb. (0.45 kg) approximately
Power Requirements.....	50 mA at 18.3 V, provided by WJ-9040 EPS100A Power Supply
Power Consumption.....	Approximately 1 watt
Operating Temperature Range.....	0 to 50°C
Reverse Isolation.....	18 dB minimum
Intermodulation Products	
3rd Order Input Intercept Point.....	+ 13 dBm

\*Flatness  $\pm$  1.5 dB, Referenced to 750 MHz.