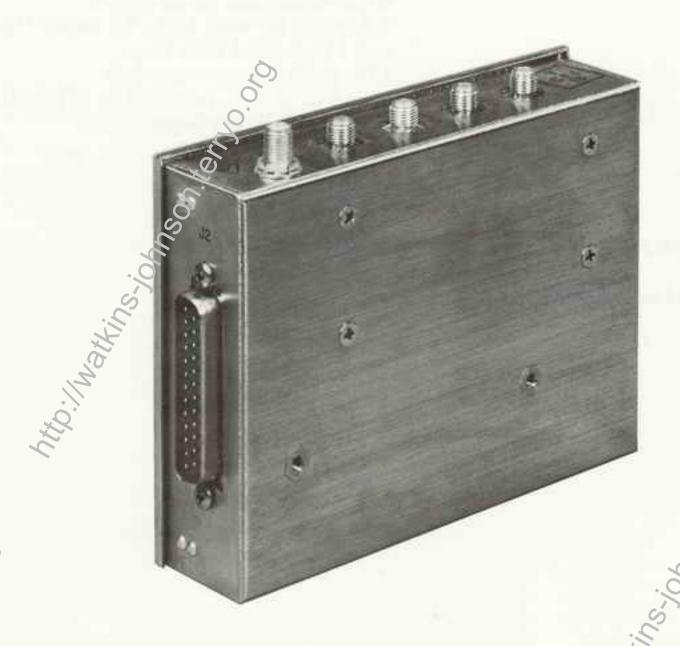
## TECHNICAL DATA **CET Division**



WATKINS-JOHNSON

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 ŒFR100 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.

For Further Information Please Contact:

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Specifications subject to change without notice.

## **SPECIFICATIONS**

Number of Outputs Gain* Noise Figure  Input/Output Impedance Input/Output VSWR Isolation Between Ports 20 to 200 MHz. 200 to 1400 MHz. Size  Weight Power Requirements  Power Consumption Operating Temperature Range Reverse Isolation Intermodulation Products 3rd Order Input Intercept Point	Frequency Range Number of Inputs
Gain* Noise Figure.  Input/Output Impedance. Input/Output VSWR. Isolation Between Ports 20 to 200 MHz. 200 to 1400 MHz. Size.  Weight Power Requirements.  Power Consumption Operating Temperature Range. Reverse Isolation Intermodulation Products	Number of Outputs
Input/Output Impedance Input/Output VSWR Isolation Between Ports 20 to 200 MHz 200 to 1400 MHz Size  Weight Power Requirements  Power Consumption Operating Temperature Range Reverse Isolation Intermodulation Products	Gain*
Input/Output VSWR. Isolation Between Ports 20 to 200 MHz. 200 to 1400 MHz. Size.  Weight. Power Requirements.  Power Consumption. Operating Temperature Range. Reverse Isolation. Intermodulation Products	Noise Figure
Input/Output VSWR. Isolation Between Ports 20 to 200 MHz. 200 to 1400 MHz. Size.  Weight. Power Requirements.  Power Consumption. Operating Temperature Range. Reverse Isolation. Intermodulation Products	Input/Output Impedance
Isolation Between Ports 20 to 200 MHz. 200 to 1400 MHz.  Size.  Weight. Power Requirements.  Power Consumption. Operating Temperature Range. Reverse Isolation. Intermodulation Products	Input/Output VSWR
200 to 1400 MHz.  Size  Weight  Power Requirements  Power Consumption  Operating Temperature Range  Reverse Isolation  Intermodulation Products	Isolation Between Ports
Weight	20 to 200 MHz
Weight	200 to 1400 MHz
Power Requirements  Power Consumption  Operating Temperature Range  Reverse Isolation  Intermodulation Products	Size
Power Requirements  Power Consumption  Operating Temperature Range  Reverse Isolation  Intermodulation Products	Weight
Power Consumption	Power Requirements
Operating Temperature Range	
Operating Temperature Range	Power Consumption
Intermodulation Products	Operating Temperature Range
3rd Order Input Intercept Point	
	3rd Order Input Intercept Point

\*Flatness ± 1.5 dB, Referenced to 750 MHz.

http://wattins.johnson.ten.org

20 to 1400 MHz
One, SMA Female
Four, SMA Female
2 dB ± 1.0 dB
20 to 750 MHz: 6 dB typical, 7 dB maximum
750 to 1400 MHz: 7 dB typical, 8 dB maximum
50 Ohms, nominal
2:1 maximum

18 dB minimum, 20 dB typical
20 dB minimum, 25 dB typical
3.5 inches (89 mm) high, 4.5 inches (114 mm) wide
and 1 inch (25.4 mm) deep
1 lb. (0.45 kg) approximately
50 mA at 18.3 V, provided by WJ-9040
EPS100A Power Supply
Approximately 1 watt
0 to 50°C
18 dB minimum

+13 dBm

Walking Johns