

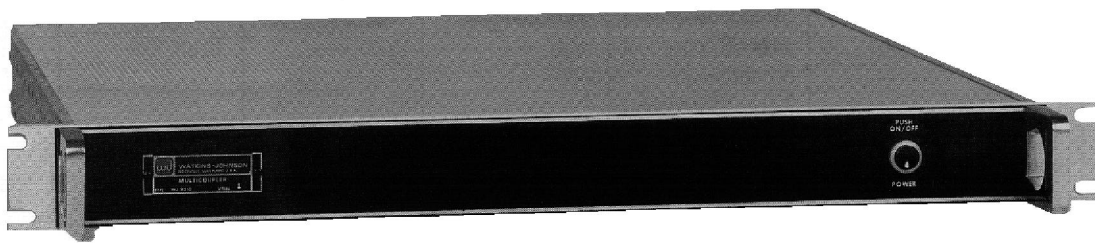
Technical Data



WATKINS-JOHNSON

July 1995

Multicouplers WJ-931X



Description

WJ-931X Multicouplers provide optimum coupling between a single antenna and as many as twelve receivers operating in the 0.5 to 1100 MHz frequency range. WJ has maximized high isolation between outputs and minimized intermodulation. Therefore, an operator doesn't need to terminate unused outputs in order to maintain the isolation specification between outputs in use. WJ Multicouplers are well-suited for use in any application where multiple receivers are employed with a single antenna. The units are designed for standard rack mounting and occupy only 1.75 inches (4.46 cm) of rack space.

Features

- *Optimum coupling between single antenna & up to 12 receivers*
- *0.5 to 1100 MHz range*
- *Standard rack mounting in only 1.75 inches (4.46 cm) of rack space*
- *Consumption of only 10 to 30 W of power*

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All International sales of WJ equipment are subject to USA export license approval.

This material provides up-to-date general information on product performance and use. It is not contractual in nature, nor does it provide warranty of any kind.

Specifications	WJ-9310	WJ-9311	WJ-9314	WJ-9315
Frequency Range	20 to 1000 MHz	0.5 to 30 MHz	20 to 1100 MHz	20 to 1100 MHz
Number of Inputs	1	1	1	3
Number of Outputs	12	8	4	12
Gain	2.0 ±1.0 dB	2 dB, nominal	+0.5 ±2 dB	+0.0 ±3 dB
Noise Figure	20 to 300 MHz (6.5 dB, max) 300 to 1000 MHz (8.5 dB, max)	7 dB, max	10 dB, max	10 dB, max
Input VSWR	2.0:1, max	1.5:1, max	3.0:1, max	3.0:1, max
Output VSWR	1.5:1, max		1.3:1, max	1.5:1, max
I/O Impedance	50 ohms	50 ohms	50 ohms	50 ohms
Isolation Between Outputs	25 dB, max	40 dB, min	30 dB, min (36 dB, typ)	30 dB, min (36 dB, typ)
Reverse Isolation	30 dB, min	N/A	30 dB, min (40 dB, typ)	30 dB, min (40 dB, typ)
RF Connectors	SMA female	Type N (Input) BNC (Output)	BNC female (Outputs), Type N (Input)	BNC female (Output) Type N (Inputs)
Intermodulation Products:				
2nd-order Input Intercept	+35 dBm	+58 dBm	+45 dBm	+45 dBm
3rd-order Input Intercept	+12 dBm	+33 dBm	+16 dBm	+16 dBm
Power Input	115/220 V (48 to 420 Hz)	115 V ± 6% (48 to 62 Hz)	115/220 V (50 to 400 Hz)	115/220 V (50 to 400 Hz)
Power Consumption	25 W, max	30 W, max	10 W, max	20 W, max
Physical				
Height	1.75 in (4.44 cm)	1.75 in (4.44 cm)	1.75 in (4.44 cm)	1.75 in (4.44 cm)
Width	19 in (48.26 cm)	19 in (48.26 cm)	19 in (48.26 cm)	19 in (48.26 cm)
Depth	16 in (40.64 cm)	16 in (40.64 cm)	16 in (40.64 cm)	16 in (40.64 cm)
Weight	12 lbs (5.42 kg)	10 lbs (4.52 kg)	8 lbs (3.61 kg)	10.5 lbs (4.75 kg)
Operating Temperature	-20° to +50°C	0° to +50°C	0° to +50°C	