



FEATURES

- 1 kHz to 60 MHz
- Up to Eight Outputs
- Input Protection
- Compact Half-Rack Size
- Wide Dynamic Range
- TEMPEST Option

DESCRIPTION

The Model 409-2 VLF-HF Multicoupler is a compact half-rack unit which allows coupling up to eight receivers to a single antenna. A low noise input amplifier provides a nominal gain of 5 dB and achieves a wide dynamic range over a broad band covering the VLF and HF bands. Input circuitry provides protection under high ambient RF field conditions or from nearby lightning strikes.

The Model 409-2 VLF-HF Multicoupler is available with four, six or eight outputs. It operates from either 115 or 230 Vac and is housed in a half-rack, 1-3/4 inch high rack mount chassis. EIA rack adapters can be provided. A TEMPEST option is available.

SPECIFICATIONS

Frequency Range	1 kHz to 60 MHz
Number of Inputs	One
Number of Outputs	4, 6, or 8
Impedance — Input and Output	50 ohms - Standard
Input Return Loss	> 12 dB
Output Return Loss	> 20 dB
Gain	5 dB, nominal
Third Order Input Intercept Point ¹	+28 dBm
Second Order Input Intercept Point ¹	+40 dBm
Isolation — Output to Output	40 dB

¹Referred to Output

Specifications are subject to change without notice.

Isolation — Reverse	50 dB
1 dB Gain Compression (referred to output)	16 dBm
Noise Figure	8 dB, nominal, at 30 MHz
Connectors - rear panel	BNC
Power	115/230 Vac, 48 to 62 Hz, 15 watts
Temperature — Operating	0° to 50° C
Style	Half-rack chassis, 1-3/4 inch high, 20 inches deep, EIA Rack Adapter available
Weight	6 lbs.

ORDERING INFORMATION

A Model 409-2 VLF-HF Multicoupler has a frequency range of 1 kHz to 60 MHz, a single input, either 4, 6 or 8 outputs and a 115/230 Vac, 47-62 Hz power supply. When ordering, please specify:

409-2	VLF-HF Multicoupler (Half-Rack)	Option Y04	4 Outputs
Option P01	400 Hz Power Supply	Option Y06	6 Outputs
Option T01	Designed to meet TEMPEST requirements	Option Y08	8 Outputs

Rack Mounting: The Model 409-2 VLF-HF Multicoupler requires a Model 4471 Rack Adapter for mounting in a standard 19 inch rack.

4471	Rack Adapter for one or two units (side by side)	Option H01	Blank Front Panel
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WARRANTY

All of Reaction Instruments' equipment is warranted for one year, except for damage caused by accident or misuse, provided the equipment is returned for repair to the plant in Herndon, VA

Adams Russell
REACTION INSTRUMENTS, INC.

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