



## FEATURES

- 1 kHz to 60 MHz
- Up to Sixteen Outputs
- Wide Dynamic Range
- Input Protection
- TEMPEST Option

## DESCRIPTION

The Model 409 VLF-HF Multicoupler is a compact broadband unit which allows coupling up to sixteen 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 VLF-HF Multicoupler is available with 6, 8, 10, 12, 14 or 16 outputs. It operates from either 115 to 230 Vac and is housed in a standard EIA, 1-3/4 inch high rack mount chassis. A TEMPEST option is available.

## SPECIFICATIONS

Frequency Range	1 kHz to 60 MHz
Number of Inputs	One
Number of Outputs	6, 8, 10, 12, 14, or 16
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 <sup>1</sup>	+28 dBm
Second Order Input Intercept Point <sup>1</sup>	+40 dBm
Isolation — Output to Output	40 dB

<sup>1</sup> Referred to output

Specifications are subject to change without notice.

## ORDERING INFORMATION

A Model 409 VLF-HF Multicoupler has a frequency range of 1 kHz to 60 MHz, a single input, either 6, 8, 10, 12, 14, or 16 outputs, and a 115/230 Vac, 47-63 Hz power supply. When ordering, please specify:

409	VLF-HF Multicoupler	Option Y08	8 Outputs
Option P01	400 Hz Power Supply	Option Y10	10 Outputs
Option T01	Designed to meet TEMPEST requirements	Option Y12	12 Outputs
Option Y06	6 Outputs	Option Y14	14 Outputs
		Option Y16	16 Outputs

## 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

Isolation — Reverse	50 dB
1 dB Gain	16 dBm
Compression (referred to output)	
Noise Figure	8 dB, nominal, at 30 MHz
Style	EIA Standard Chassis, 1-3/4 inch high, 15 inches deep, suitable for 19 inch rack mounting.
Connectors - rear panel	BNC
Power	115/230 Vac, 48 to 63 Hz, 15 watts
Temperature — Operating	0° to 50° C
Weight	12 lbs.

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