



## FEATURES

- DC to 1 GHz
- Bi-directional
- 12 Inputs and One Output or  
1 Input and 12 Outputs
- Compact Half-Rack Size

## DESCRIPTION

The Model 654 IF Switch permits front panel selection of one of twelve IF signals. The rear panel contains 12 input BNC connectors and one output BNC connector. Signal selection is implemented using twelve coaxial relays.

Broadband relays are used covering the frequency range from DC to 1 GHz. Since no active components are used in the signal path, the usable frequency response is defined only by the relays and BNC connectors.

The unit is bi-directional and can also be used to channel a single input signal to any one of twelve output ports.

The Model 654 IF Switch is housed in a half rack 1-3/4 inches high chassis. Two units may be joined to form a single standard 19 inch EIA rack mounted chassis. Alternatively, a rack adapter is available which permits mounting a single unit in a standard 19-inch rack.

## SPECIFICATIONS

<b>Input Frequency</b>	DC to 1 GHz
<b>Return Loss (with output terminated)</b>	20 dB
<b>Channel to channel Isolation</b>	80 dB, typical; 60 dB, minimum
<b>Insertion Loss</b>	< 0.5 dB
<b>Number of Outputs</b>	12, maximum
<b>Connectors - Rear Panel</b>	BNC

<b>Power</b>	115/230 VAC, 47-63 Hz - Standard 28 Vdc - Optional
<b>Temperature-Operating</b>	0° to 50° C
<b>Style</b>	Half rack chassis, 1-1/3 inches high by 20 inches deep, EIA Rack Adapter available
<b>Weight</b>	9 lbs.

Specifications are subject to change without notice.

## ORDERING INFORMATION

A Model 654 IF Switch provides one input (or output) and either six or twelve outputs (or inputs). The desired number of outputs must be specified from the options list below. The standard power supply provides 115/230 Vac, 47-63 Hz. A 28 Vdc power supply is available as an option. When ordering, please specify:

<b>654</b>	IF Switch	<b>Option Y12</b>	12 Outputs (or Inputs)
<b>Option Y06</b>	Six Outputs (or Inputs)	<b>Option P02</b>	28 Vdc Power Supply

**Rack Mounting:** Single units of the Model 654 IF Switch must be mounted using a Model 697-1 Rack Adapter. For side-by-side installation, two units can be fastened together and mounted as a single full-rack unit.

<b>697-1</b>	Rack Adapter, single units
--------------	----------------------------

## 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.**

475 Springpark Place, Herndon, VA 22070  
(703) 471-6060 FAX (703) 471-4847

DECEMBER 1988