



## FEATURES

- DC To 12 GHz
- Bidirectional
- Twelve Inputs/One Output
- Or One Input/Twelve Outputs
- IEEE-48 Or RS-232C Computer Interface

## DESCRIPTION

The Model 653 RF Switch permits selection of one of twelve signals in the dc to 12 GHz frequency range. Signal selection can be controlled either manually via the front panel or by computer. A choice of IEEE-488 or RS-232C interface is provided. The unit is bidirectional and the twelve Type N input connectors and one Type N output connector can also be used to channel a single input signal to any one of twelve output ports. All connectors are located on the rear panel.

Signal selection is implemented using twelve broadband coaxial relays. Since there are no active components in the signal paths, the usable frequency response is defined only by the relays, Type N connectors, and interconnecting cables.

The Model 653 RF Switch is housed in a full rack 1-3/4 inch high chassis.

## SPECIFICATIONS

<b>Input Frequency</b>	DC to 12 GHz
<b>Return Loss (with output terminated)</b>	20 dB, minimum
<b>Channel to Channel Isolation</b>	80 dB typical, 60 dB minimum
<b>Insertion Loss</b>	
DC to 1 GHz	0.5 dB, maximum
1 to 4 GHz	3 dB, maximum
4 to 12 GHz	5 dB, maximum
<b>Number of Inputs (or Outputs)</b>	Twelve
<b>Number of Outputs (or Inputs)</b>	One

Specifications are subject to change without notice.

<b>Connectors (rear panel)</b>	Type N IEEE-488 or RS-232C
<b>Controls (front panel)</b>	POWER, OUTPUTS SELECT 1-12
<b>Power</b>	115/230 Vac, 47-62 Hz
<b>Temperature - operating</b>	0° to 50° C
<b>Style</b>	1-3/4 inch high by 20 inches deep, suitable for standard EIA 19-inch rack mounting
<b>Weight</b>	12 lbs.

## ORDERING INFORMATION

A Standard Model 653 RF Switch provides 12 inputs (or outputs) and a choice of IEEE-488 or RS-232C computer interface. When ordering, please specify:

<b>653</b>	RF Switch
<b>Option I30</b>	IEEE-488 Computer Interface

<b>Option I20</b>	RS-232C Computer Interface
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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

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