

## MRF 2150 SERIES

### Full Fan-Out Non-Blocking RF Matrix Routing System



#### General Description:

The **MRF 2150** is a programmable, full fan-out RF matrix switch that can be configured to route any of 2, 4, 8, or 12 inputs to any number of 2 or 4 outputs. The multi-octave system utilizes patented stack-and-tier technology to offer compact, ultra-reliable, and cost effective realizations of radio frequency (RF) switching technology. This greatly reduces the size, complexity, and cost of large broadband RF routing systems, while greatly enhancing the performance and reliability of the system, by drastically reducing the number of switching modules, connectors, and cables.

#### Specifications:

<b>Frequency:</b>	950-2150 MHz
<b>Impedance:</b>	75 $\Omega$
<b>Max. Total Operating Input Power:</b>	-20 dBm
<b>Insertion Loss:</b>	0 $\pm$ 2 dB
<b>Frequency Response:</b>	$\pm$ 3 dB
<b>Isolation (input-to-input):</b>	$\geq$ 45 dB
<b>Isolation (output-to-output):</b>	$\geq$ 45 dB
<b>Isolation (input-to-output):</b>	$\geq$ 40 dB
<b>Input Return Loss:</b>	14 dB
<b>Output Return Loss:</b>	12 dB
<b>RF Connectors:</b>	Type "F", 75 $\Omega$ (BNC optional)
<b>Power Requirements:</b>	100-240 VAC, 50/60 Hz
<b>Power Consumption:</b>	16 W
<b>Local Control:</b>	Front panel keypad with LCD display
<b>Remote Control:</b>	RS-232, RS422/485, or TCP/IP via customer-supplied PC
<b>Mechanical:</b>	1 RU (1.75"H x 19"W x 6.5"D) or 2 RU (3.5"H x 19"W x 14"D), depending on configuration
<b>Available Configurations:</b>	2, 4, 8, or 12 inputs x 2 or 4 outputs



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