

MRF 200 SERIES

Full Fan-Out Non-Blocking RF Matrix Routing System



General Description:

The **MRF 200** 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 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. The system is controllable either locally via the front panel keypad or remotely via computer and is compatible with most monitoring and control systems. The easy access front panel keypad and LCD display provide convenient crosspoint identification..

Specifications:

	<u>70 MHz</u>	<u>140 MHz</u>	<u>200 MHz</u>
Frequency:	70 ± 20 MHz	140 ± 40 MHz	5-200 MHz
Gain:	+0.5 dB ± 0.5 dB	+0.5 dB ± 0.5 dB	+0.5 dB ± 0.5 dB
Impedance:	75 T (50 T opt.)	75 T (50 T opt.)	75 T (50 T opt.)
P1dB:	+6 dBm	+6 dBm	+6 dBm
Frequency Response:	± 0.5 dB	± 0.5 dB	± 0.5 dB
Isolation (input-to-input):	60 dB	60 dB	60 dB
Isolation (output-to-output):	60 dB	60 dB	60 dB
Isolation (input-to-output):	60 dB	60 dB	60 dB
Return Loss:	12 dB	12 dB	12 dB
Control Response Time:	1.26 msec.	1.26 msec.	1.26 msec.
Switching Speed:	40 nsec.	40 nsec.	40 nsec.
Noise Figure:	12 dB	12 dB	12 dB
RF Connectors:	Type "F", 75 T (BNC 75 , BNC 50 , SMA 50 optional)		
Power Requirements:	100-240 VAC, 50/60 Hz		
Power Consumption:	16 W max., depending on I/O configuration		
Local Control:	Front panel keypad with LCD display		
Remote Control:	RS-232, RS422/485, or TCP/IP via customer-supplied PC		
Mechanical:	1 RU (1.75"H x 19"W x 20"D) or 2 RU (3.5"H x 19"W x 20"D), depending on configuration		
Available Configurations:	2, 4, 8, or 12 inputs x 2 or 4 outputs		
Weight:	17.8 lbs. gross (boxed), 11.2 lbs. net		



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