JFW Industries, Inc.
Phone: 317-887-1340
sales@jfwindustries.com
www.jfwindustries.com

Frequency Range	DC-26.5 GHz
Configuration	2 x 12 Blocking Matrix
(See block diagram 092-8811)
(Unused input ports are terminated)
(Unused output ports are terminated)
(all ports are bi-directional)
(the ADMIN password is located on rear panel)
Startup/Default States
(configurable) | All ports off at startup (see MATRIX command)
DHCP enabled (see NET command)
4 Ethernet users (see NET command)
Prompts off (see PROMPT command)

All of these default settings can be changed by user.
Unit can be configured for up to 12 Ethernet users. |
| Enclosure Type | 19 inch rack mount @ 4RU high |
| Impedance | 50 Ohms nominal |
| VSWR | Typical:
1.35:1 typical DC-8GHz
1.50:1 typical 8-12.4GHz
1.70:1 typical 12.4-18GHz
1.90:1 typical 18-26.5GHz

Maximum:
1.6:1 maximum DC-8GHz
2.4:1 maximum 8-26.5GHz |
| Insertion Loss | Typical:
3.25dB typical DC-8GHz
4.25dB typical 8-12.4GHz
5.75dB typical 12.4-18GHz
8.75dB typical 18-26.5GHz

Maximum:
4.0dB maximum DC-8GHz
9.5dB maximum 8-26.5GHz |
| Isolation | Typical:
90dB typical DC-12.4GHz
80dB typical 12.4-18GHz
65dB typical 18-26.5GHz

Minimum:
70 dB minimum DC-8GHz
60 dB minimum 8-18GHz
50 dB minimum 18-26.5GHz |
| RF Input Power | 8 Watts average (cold switched)
0.25 Watt average (hot switched) |

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JFW MODEL 50MS-356
2x12 BLOCKING MATRIX SWITCH

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Switching Speed	20 milliseconds (after command is received and processed) (3 milliseconds typical processing time)
Manual Control	20-Button Keypad and LCD display (IP Address configurable via keypad) (Net mask configurable via keypad) (Gateway configurable via keypad) (Baud rate configurable via keypad)
Remote Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)
Remote Commands	Matrix Commands: Matrix, Set Input, Set Output, Read Input, Read Output, Read All Inputs, Read All Outputs, Read Matrix Paths System Commands: Help, Identification, Store, Recall, Pause, Net, Serial, Close, Disconnect, MOTD, Date, Message, Restrict, IDENT, Name, Show Users, Reboot, Uptime, Prompt
RF Connector	SMA female
AC Supply	100-240 VAC @ 47-63 Hz 2 Amp 5x20mm "Slo-Blo" AC fuse Littelfuse #215-002, JFW #025-021
Operating Temperature Range	0° to +70° C
Physical Size	See outline drawing 092-8659

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	07/08/2016		BAC 07/08/2016				
27728	04/19/2017	A	TRS 04/19/2017				

JFW FORM E-7-F REV F