

**SPECIFICATION SHEET**

**JFW MODEL 50MS-404**

**MATRIX SWITCH**

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

Frequency Range	DC-18 GHz
Configuration	8 x 8 Blocking Electro-Mechanical Matrix Switch (See block diagram 092-9492) (Unused input ports are terminated at 50 Ohms) (Unused output ports are terminated at 50 Ohms) (all ports are bi-directional) (the ADMIN password is located on rear panel)
Enclosure Type	19 inch rack mount @ 4RU high
Impedance	50 Ohms nominal
VSWR	1.5:1 maximum DC-6GHz 2.0:1 maximum 6-18GHz 1.1:1 typical @ 4GHz 1.3:1 typical @ 8GHz 1.5:1 typical @ 12.4GHz 1.8:1 typical @ 18GHz
Insertion Loss	2.3dB maximum DC-6GHz 4.0dB maximum 6-18GHz 1.6dB typical @ 6GHz 3.4dB typical @ 18GHz
Isolation	70 dB minimum DC-4GHz 65 dB minimum 4-8GHz 60 dB minimum 8-12.4GHz 55 dB minimum 12.4-18GHz 90dB typical @ 8GHz 75dB typical @ 18GHz
RF Input Power	1 Watt average (hot switched) 50 Watts average @ 6GHz (cold switched) 30 Watts average @ 18GHz (cold switched)
Switching Speed	15 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)

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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.

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

N or SMA female

AC Supply

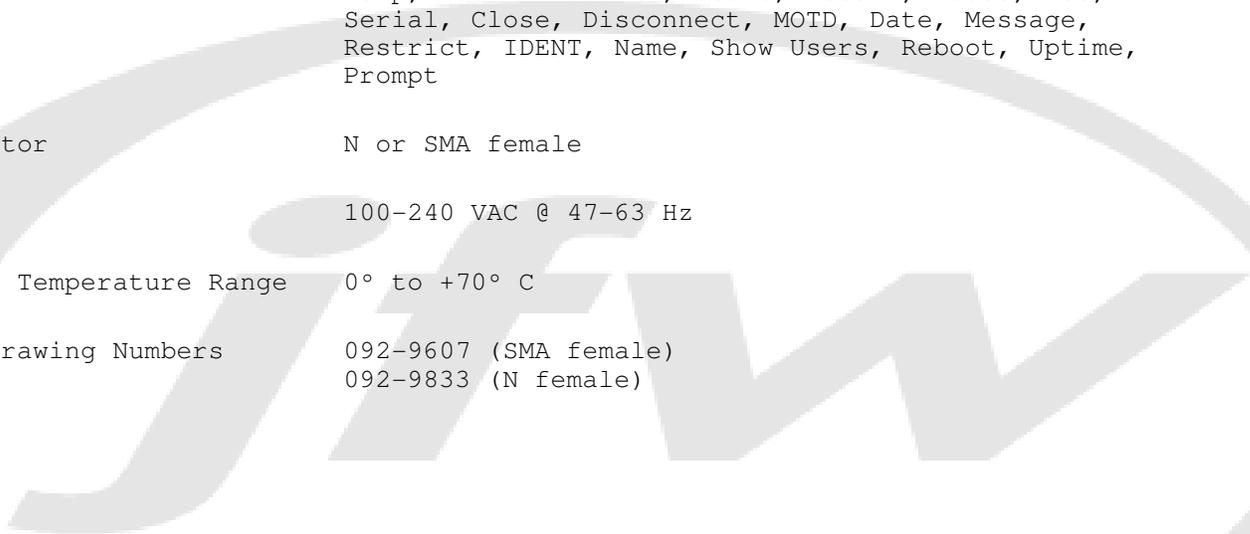
100-240 VAC @ 47-63 Hz

Operating Temperature Range

0° to +70° C

Outline Drawing Numbers

092-9607 (SMA female)  
092-9833 (N female)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	09/02/2020		TRS 09/02/2020				
31569	01/31/2022	A	TRS 01/31/2022				