

**SPECIFICATION SHEET**

**JFW MODEL 50PA-738**

**PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	DC-18 GHz
Configuration	Four individually controlled relay programmable attenuators
Enclosure Type	19 inch rack mount @ 2RU high
Impedance	50 Ohms nominal
Attenuation Range	0-81 dB in 1 dB steps
Attenuation Steps	1, 2, 4, 4, 10, 20, and 40 dB
Attenuation Repeatability (each individual cell)	± 0.01 dB typical after 5 millions cycles
Individual Cell Accuracy	1 dB ± 0.3 dB DC-12.4 GHz ± 0.7 dB 12.4-18 GHz 2 dB ± 0.3 dB DC-12.4 GHz ± 0.7 dB 12.4-18 GHz 4 dB ± 0.4 dB DC-12.4 GHz ± 0.7 dB 12.4-18 GHz 10 dB ± 0.5 dB DC-12.4 GHz ± 0.6 dB 12.4-18 GHz 20 dB ± 0.7 dB DC-12.4 GHz ± 0.8 dB 12.4-18 GHz 40 dB ± 1.2 dB DC-12.4 GHz ± 1.6 dB 12.4-18 GHz
Startup/Default States (configurable)	Maximum attenuation (see ATTEN command) DHCP enabled (see NET command) 4 Ethernet users (see NET command) Prompts off (see PROMPT command)
VSWR	1.3:1 typical DC-8 GHz 1.5:1 typical 8-12.4 GHz 1.8:1 typical 12.4-18 GHz
Insertion Loss	2.1 dB typical @ 4 GHz 2.8 dB typical @ 8 GHz 4.7 dB typical @ 18 GHz
Maximum RF Input Power	1 Watt average
Switching Speed	20 milliseconds
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)
Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)

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Remote Commands

Attenuator Control Commands:

Atten, Set Attenuator, Read Attenuator, Set All Attenuators, Read All Attenuators, Read All Extended, Block, Set Block, Read Block, Read All Blocks

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

Operating Temperature Range

0°C to 50°C

AC Supply

100-240 VAC @ 47-63 Hz

Physical Size

See outline drawing 092-7483



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	10/10/2012		TRS 10/10/2012				
24239	01/29/2015	A	TRS 01/29/2015				
27075	09/16/2016	B	TRS 09/16/2016				