SPECIFICATION SHEET
JFW MODEL 50BA-025-62
PROGRAMMABLE ATTENUATOR ASSEMBLY

Frequency Range	100 MHz–40 GHz
Configuration	Two individually controlled solid-state programmable attenuators.
Enclosure Type	Mini-benchtop
Impedance	50 Ohms nominal
Attenuation Range	0–62 dB in 1 dB steps
Startup/Default States (configurable)	Attenuators to 62dB at startup (see ATTEN 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.
VSWR	1.6:1 typical 100MHz–18 GHz 1.8:1 typical 18–26.5 GHz 2.2:1 typical 26.5–40 GHz 2.8:1 maximum 100MHz–40 GHz
Attenuation Accuracy (Referenced to Insertion loss)	0–31dB ± 1.0 dB typical 100MHz–18 GHz ± 1.5 dB typical 18–26.5 GHz ± 2.0 dB typical 26.5–40 GHz ± 3.5 dB maximum 100MHz–40 GHz 31–48dB ± 2.0 dB typical 100MHz–18 GHz ± 2.0 dB typical 18–26.5 GHz ± 4.0 dB typical 26.5–40 GHz ± 5.0 dB maximum 100MHz–40 GHz 49–62dB ± 3.0 dB typical 100MHz–18 GHz ± 3.0 dB typical 18–26.5 GHz ± 4.0 dB typical 26.5–40 GHz ± 8.0 dB maximum 100MHz–40 GHz
Insertion Loss	4.0 dB typical @ 100MHz 5.5 dB typical @ 3 GHz 8.0 dB typical @ 8 GHz 11.5 dB typical @ 18 GHz 15.0 dB typical @ 26.5 GHz 18.0 dB typical @ 40 GHz
RF Input Power	+20 dBm average +25 dBm (0.1dB compression)

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Switching Speed	1 microsecond typical (after command is received and processed) (3 milliseconds typical processing time)
DC Supply	+12 Vdc (100-240 VAC AC/DC transformer included)
Manual Control	Momentary Lever Actuator Switch with 7-Segment LED Displays (tap to step, hold to jog) (jog speed range is 0-10) (jog speed set to 0 will disable all levers)
Remote Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)
Remote Commands	Attenuator Control Commands: Atten, Set Attenuator, Read Attenuator, Set All Attenuators, Read All Attenuators, Read All Extended, Fade Attenuator, Variable Attenuator Handover, Block, Set Block, Read Block, Read All Blocks, Fade Block, Variable Block Handover System Commands: Help, Identification, Store, Recall, Pause, Net, Serial, Close, Disconnect, MOTD, Date, Message, Restrict, IDENT, Name, Show Users, Reboot, Uptime, Prompt
RF Connector	2.92mm female
Operating Temperature Range	0°C to +50°C
Physical Size	See Outline Drawing 092-8743

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