

SPECIFICATION SHEET

JFW MODEL 50BA-011-63

BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY

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

Frequency Range	200-6000 MHz
Configuration	Four individually controlled solid-state programmable attenuators
Enclosure Type	Mini-benchtop
Impedance	50 Ohms nominal
Attenuation Range	0-63 dB in 1 dB steps
Startup/Default States (configurable)	Maximum attenuation (see ATTEN STARTUP command) DHCP enabled (see NET command) 4 Ethernet users (see NET USERS command) Prompts off (see PROMPT command) Jog speed 5 (see JOG SPEED command)
VSWR	1.8:1 maximum 200-800 MHz 1.6:1 maximum 800-6000 MHz
Attenuation Accuracy (guaranteed monotonic)	± 0.50 dB 1-3 dB ± 0.75 dB 4-7 dB ± 1.00 dB 8-11 dB ± 1.25 dB or 4% 12-63 dB (whichever is greater)
Insertion Loss	6.6 dB maximum 2.7 dB typical @ 200 MHz 3.0 dB typical @ 700 MHz 3.7 dB typical @ 2000 MHz 6.3 dB typical @ 6000 MHz
RF Input Power*	+27 dBm average +33 dBm (no damage)
Switching Speed	3 microseconds typical (after command is received and processed) (3 milliseconds typical processing time)
DC Supply	+12 Vdc (100-240 VAC AC/DC transformer included) (0.05 Amps @ 120 VAC nominal) (0.03 Amps @ 240 VAC nominal)

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Manual Control Four Momentary Lever Actuator Switches 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, Jog Speed

RF Connector SMA female

Operating Temperature Range 0°C to +50°C

Physical Size See outline drawing 092-8150

* Units shipped before 8/9/2018 (date code 1832) are only rated at +20dBm maximum. The JFW date code is a four digit code (YYWW) that follows the six digit serial number. For example date code 1908 is the 8th week of 2019.

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	06/21/2013		TRS 06/21/2013	28940	08/09/2018	C	TRS 08/09/2018
23462	11/19/2013	A	CLK 11/19/2013	29857	10/02/2019	D	TRS 10/02/2019
24239	11/13/2014	B	TRS 11/13/2014				