

SPECIFICATION SHEET**JFW MODEL 50BA-001-95****BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	200-6000 MHz										
Configuration	One solid-state programmable attenuator										
Enclosure Type	Mini-benchtop										
Impedance	50 Ohms nominal										
Attenuation Range	0-95 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	2.0:1 maximum										
Attenuation Accuracy (guaranteed monotonic)	<table><tr><td>± 0.50 dB</td><td>1-3 dB</td></tr><tr><td>± 0.75 dB</td><td>4-7 dB</td></tr><tr><td>± 1.00 dB</td><td>8-11 dB</td></tr><tr><td>± 1.25 dB or 4%</td><td>12-95 dB</td></tr><tr><td colspan="2">(whichever is greater)</td></tr></table>	± 0.50 dB	1-3 dB	± 0.75 dB	4-7 dB	± 1.00 dB	8-11 dB	± 1.25 dB or 4%	12-95 dB	(whichever is greater)	
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± 1.25 dB or 4%	12-95 dB										
(whichever is greater)											
Insertion Loss	8.8 dB maximum 4.0 dB typical @ 200 MHz 4.5 dB typical @ 700 MHz 8.2 dB typical @ 6000 MHz										
RF Input Power	+27 dBm average +33 dBm (no damage)										
Switching Speed	4 microseconds 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)										

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Remote Commands

Attenuator Control Commands:

Atten, Set Attenuator, Read Attenuator, Fade
Attenuator

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 or N female

Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-6615 (SMA)
092-6812 (N)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
18975	08/06/2010	A	CLK 08/06/2010	24239	12/01/2014	D	TRS 12/01/2014
19482	12/09/2010	B	CLK 12/09/2010	28159	10/05/2017	E	CLK 10/05/2017
20298	07/08/2011	C	CLK 07/08/2011	28495	02/09/2018	F	TRS 02/09/2018