

**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)	$\pm 0.50$ dB            1-3 dB $\pm 0.75$ dB            4-7 dB $\pm 1.00$ dB            8-11 dB $\pm 1.25$ 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

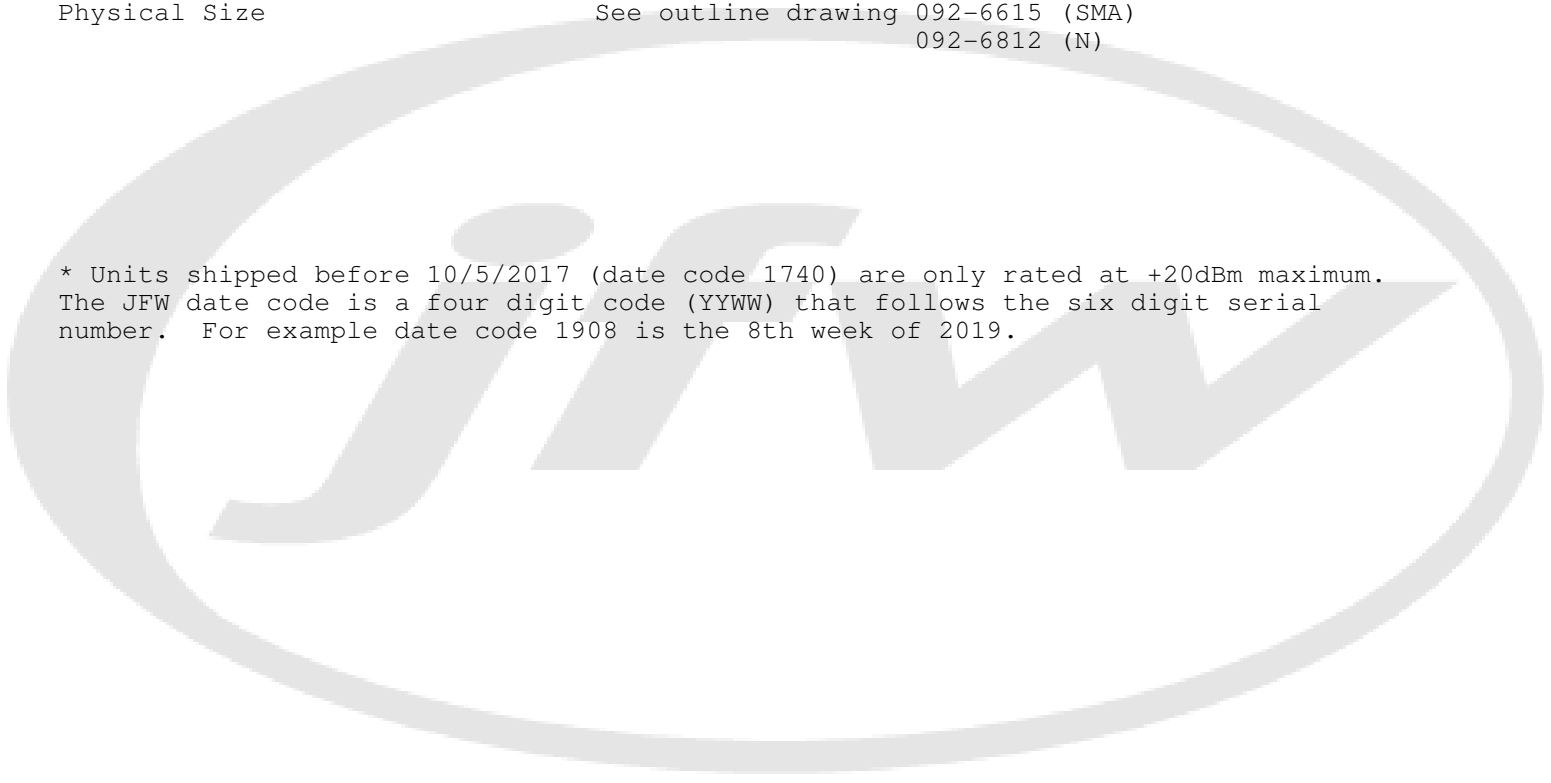
Operating Temperature Range

0°C to +50°C

Physical Size

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

\* Units shipped before 10/5/2017 (date code 1740) 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
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
24239	12/01/2014	D	TRS 12/01/2014	29857	10/02/2019	G	TRS 10/02/2019