

**SPECIFICATION SHEET****JFW MODEL 50BA-017-63.5****BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY**JFW Industries, Inc.  
Phone: 317-887-1340  
sales@jfwindustries.com  
www.jfwindustries.com

Frequency Range	30-3000 MHz
Configuration	One solid-state programmable attenuator
Enclosure Type	Mini-benchtop
Impedance	50 Ohms nominal
Attenuation Range	0-63.5 dB in 0.5 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 30-800 MHz 1.6:1 maximum 800-3000 MHz
Attenuation Accuracy (guaranteed monotonic)	± 0.3 dB 0.5-7.5 dB ± 0.5 dB or 2% 8-63.5 dB (whichever is greater)
Insertion Loss	4.6 dB maximum 2.6 dB typical @ 30 MHz 4.2 dB typical @ 3000 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)
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, N, or BNC female

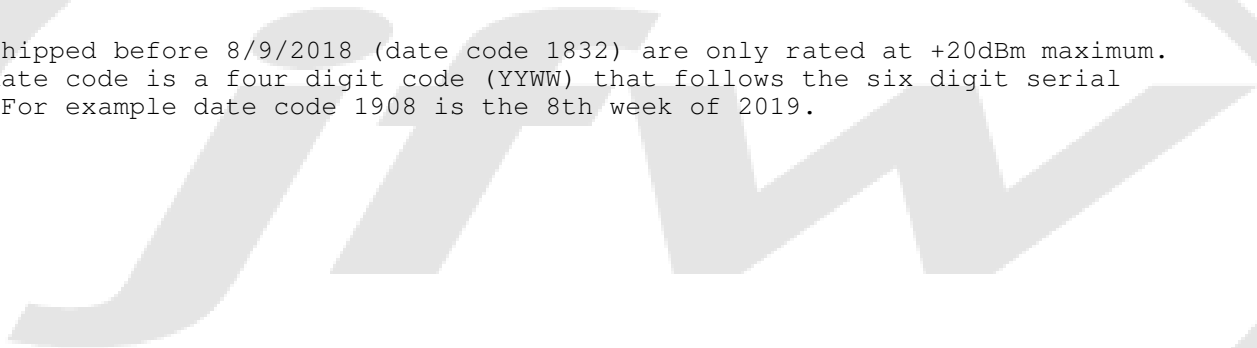
Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing: 092-7689 (N)  
092-7690 (SMA)  
092-7691 (BNC)

\* 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
	04/25/2013		CLK 04/25/2013	28940	08/09/2018	C	TRS 08/09/2018
23428	11/01/2013	A	CLK 11/01/2013	29857	10/02/2019	D	TRS 10/02/2019
24239	12/01/2014	B	TRS 12/01/2014	30339	04/14/2020	E	TRS 04/14/2020