

**SPECIFICATION SHEET**

**JFW MODEL 50BA-042-63**

**BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	100 MHz-18 GHz
Configuration	One solid-state programmable attenuator
Enclosure Type	Mini-benchtop
Impedance	50 Ohms nominal
Attenuation Range	0-63 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	2.2:1 maximum < 1.4:1 typical 0.1-6 GHz < 1.8:1 typical 6-18 GHz
Attenuation Accuracy	± 0.3 dB      0.5-3.5 dB ± 0.6 dB      4-14.5 dB ± 0.8 dB      15-31.5 dB ± 1.00 dB or 2%      32-63 dB (whichever is greater)
Insertion Loss	8.0 dB maximum 2.0 dB typical @ 100 MHz 4.0 dB typical @ 6 GHz 5.5 dB typical @ 12.4 GHz 7.5 dB typical @ 18 GHz
RF Input Power	+24 dBm (operating - Input Side) +15 dBm (operating - Output Side) +25 dBm (no damage - Input Side) +16 dBm (no damage - Output Side)
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)

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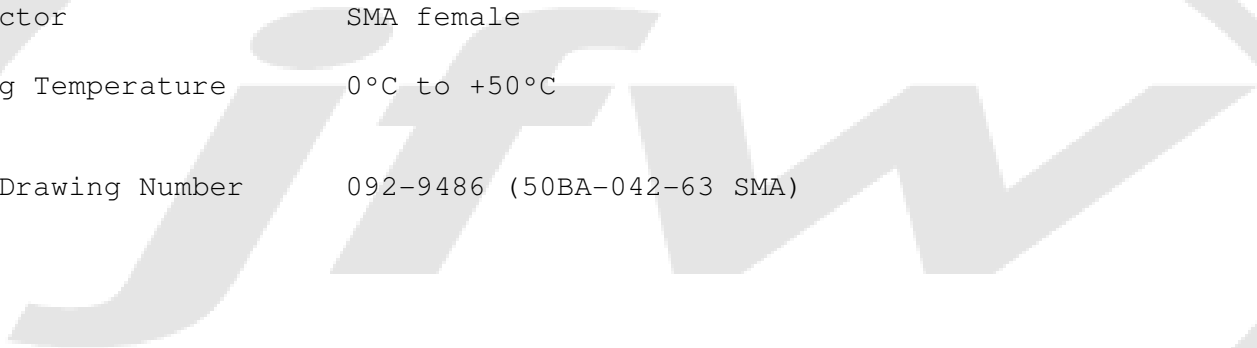
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Manual Control	Momentary Lever Actuator Switch with 7-Segment LED Display (tap to step, hold to jog) (jog speed range is 0-10) (jog speed set to 0 will disable all levers)
Remote Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)
Remote Commands	Attenuator Control Commands: Atten, Set Attenuator, Read Attenuator, 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 female
Operating Temperature Range	0°C to +50°C
Outline Drawing Number	092-9486 (50BA-042-63 SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	02/03/2020		CLK 02/03/2020				
30836	12/21/2020	A	TRS 12/21/2020				