

# Manual Variable Attenuators

The JFW rotary attenuator has been a staple to RF engineers for almost 30 years. In that time, our line of manually variable step attenuators has grown to include over 700 models. With a wide variety of attenuation ranges, step sizes and tuning options, JFW has solutions to fit almost any variable attenuator application. At JFW Industries, we can literally put reliable attenuation at your fingertips. Our years of proven quality and performance make a JFW variable attenuator right for any RF environment.



## *Available Features*

- Variable attenuators covering frequency ranges from DC to 18 GHz
- Multiple attenuator tuning options (rotor, dual-concentric rotors, push-button, toggle switch or rocker switch)
- Attenuations step sizes as low as 0.1 dB resolution
- 50 Ohm and 75 Ohm attenuators (other impedance values also available upon request)
- Any RF connector combination (BNC, SMA, N, TNC, F reverse polarity and more)
- Available on 19" rack panels or in stackable bench-top boxes

**AFFORDABLE CUSTOM DESIGNS ARE ALSO AVAILABLE!**

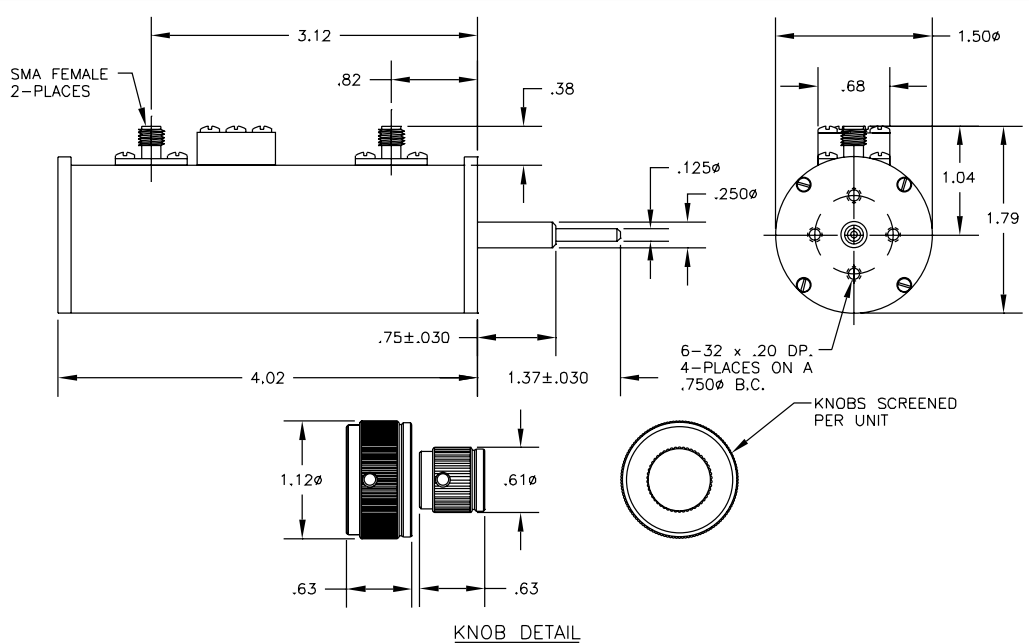
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# Dual Concentric Rotary Attenuators

Model	Frequency Range	Attenuation Range	Attenuation Accuracy (maximum)	VSWR (maximum)	RF Input Power	Insertion Loss (maximum)
50DR-001	DC-1000 MHz	0-110 dB in 1 dB steps	+/- 0.2 dB or 1% DC-500 MHz +/- 0.3 dB or 2% 500-1000 MHz	1.2:1 DC-500 MHz 1.4:1 500-1000 MHz	2 Watts average 1000 Watts peak	0.5 dB
50DR-035	DC-2000 MHz	0-70 dB in 1 dB steps	+/- 0.5 dB or 3%	1.25:1 DC-1000 MHz 1.5:1 1000-2000 MHz	2 Watts average 1000 Watts peak	0.6 dB DC-1000 MHz 1.0 dB 1000-2000 MHz
50DR-046	DC-2500 MHz	0-50 dB in 1 dB steps	+/- 0.2 dB or 1% DC-500 MHz +/- 0.3 dB or 3% 500-1000 MHz +/- 0.4 dB or 3% 1000-2500 MHz	1.2:1 DC-500 MHz 1.4:1 500-1000 MHz 1.5:1 1000-2500 MHz	2 Watts average 1000 Watts peak	0.5 dB DC-1000 MHz 1.0 dB 1000-2500 MHz
50DR-061	DC-2200 MHz	0-80 dB in 1 dB steps	+/- 0.5 dB or 3%	1.25:1 DC-1000 MHz 1.5:1 1000-2200 MHz	2 Watts average 1000 Watts peak	0.6 dB DC-1000 MHz 1.0 dB 1000-2200 MHz
50DR-077	DC-2000 MHz	0-90 dB in 1 dB steps	+/- 0.5 dB or 1% DC-500 MHz +/- 0.5 dB or 2% 500-2000 MHz	1.2:1 DC-500 MHz 1.4:1 500-1000 MHz 1.5:1 1000-2000 MHz	2 Watts average 1000 Watts peak	0.5 dB DC-1000 MHz 1.0 dB 1000-2000 MHz
50DR-082	DC-2000 MHz	0-110 dB in 1 dB steps	+/- 0.5 dB or 1% DC-500 MHz +/- 0.5 dB or 3% 500-2000 MHz	1.2:1 DC-500 MHz 1.4:1 500-1000 MHz 1.5:1 1000-2000 MHz	1 Watt average 1000 Watts peak	0.5 dB DC-1000 MHz 1.0 dB 1000-2000 MHz

## Common Specifications

Impedance	Standard Rotation	Indexing	Operating Temperature	RF Connectors
50 Ohms	Attenuation increases in clockwise direction	30 degrees with stops at minimum and maximum	-20° C to +85° C	BNC, N, SMA or TNC female



This represents only 10% of our products. For YOUR application, contact JFW at 1-877-887-4JFW or sales@jfwindustries.com