

## VARIABLE, LABORATORY ATTENUATORS . . . DC to 500 MC

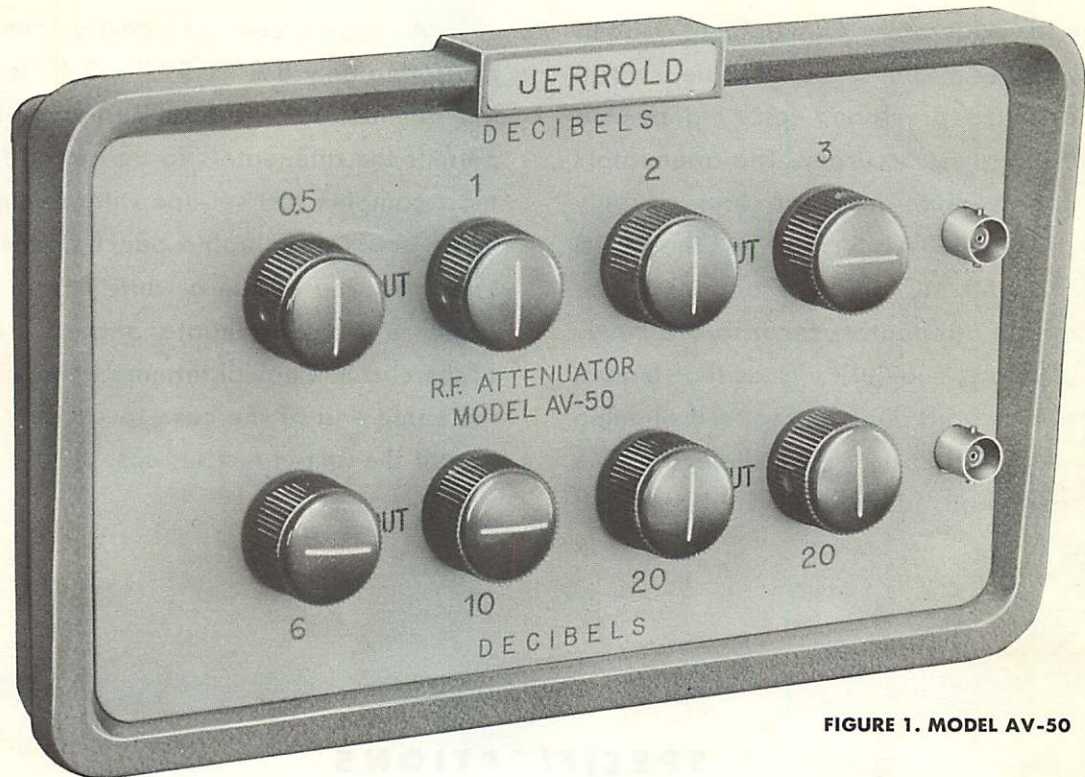


FIGURE 1. MODEL AV-50

### FEATURES

- 0 to 62.5 db Attenuation in 0.5 db steps.
- Low Insertion Loss—0.5 db at 500 MC.
  - Low VSWR—1.15 at 250 MC, 1.4 at 500 MC.
  - Accurate Attenuation Settings—refer to figure 2.
- Shielded, Rotary Coaxial Switches
- Compact, Rugged Design

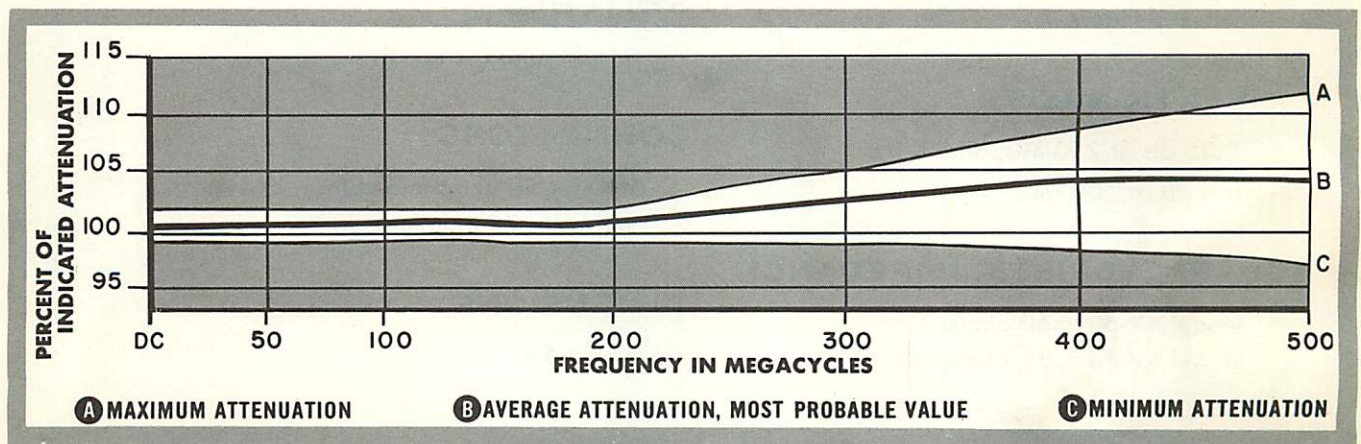


FIGURE 2. ATTENUATION ACCURACY

Jerrold Electronics Corporation • The Jerrold Building • 15th and Lehigh • Phila. 32, Pa.

## DESCRIPTION

Jerrold "Laboratory Attenuators", Models AV-50 and AV-75, are of the variable, switch-type and utilize precision, carbon-deposited resistors for highest accuracy. The attenuators exhibit a maximum insertion loss of only 0.25 db at 250 MC. A VSWR of less than 1.15 from DC to 250 MC and 1.4 at 500 MC is featured. Both attenuators incorporate newly developed rotary, coaxial switches that feature a floating rotor with dual wiping, self aligning contacts mounted in a "Tel-F" dielectric. The switches are housed in individual shielded sections.

A rugged, compact, cast-aluminum case measuring only  $8\frac{3}{8}$ " x  $5\frac{3}{8}$ " x  $2\frac{1}{2}$ " is used for the attenuators. The slim design of the case permits the attenuators to be inserted into the most complex test set-ups without consuming large areas of valuable bench space. Switch knobs are marked in a white line to show at a glance if any attenuator section is in or out of the circuit. Coaxial terminals are located on the same end of the case to simplify connection of the unit in test set-ups.

## SPECIFICATIONS

### ATTENUATION RANGE

0 to 62.5 db, in 0.5 db steps.

### FREQUENCY RANGE

DC to 500 MC.

### ATTENUATION ACCURACY

Refer to Figure 2.

### INSERTION LOSS

0.25 db at 250 MC, and  
0.5 db at 500 MC.

### CHARACTERISTIC IMPEDANCE

Model AV-50 . . 50 ohms.  
Model AV-75 . . 75 ohms.

### MAXIMUM VSWR

1.15 up to 250 MC and  
1.4 up to 500 MC.

### POWER DISSIPATION

0.5 watts average, at 500 volts peak.

### SWITCHES

Jerrold rotary, coaxial.

### CONNECTORS

BNC for 50 ohms impedance, and Jerrold "F"  
Series for 75 ohm impedance.

### DIMENSIONS

$8\frac{3}{8}$ " x  $5\frac{3}{8}$ " x  $2\frac{1}{2}$ "