

ANTENNA DIVIDER SYSTEM

AD-707

UHF Antenna Divider System for UHF Diversity Receivers

The **AD-707** is a professional **UHF Antenna Divider System** designed to allow up to four UHF diversity receivers to operate from a single pair of antennas, greatly reducing antenna clutter in multi-system installations. When combined with an **AD-707A Extension Antenna Kit** and an **AD-707B Antenna Booster**, the AD-707 Antenna Divider provides optimal signal reception with minimal dropouts or interference.



The **AD-707** features the latest in low noise and wide dynamic range components, plus advanced circuitry designed to eliminate the spurious interference found in multiple system usage. System output gain for the AD-707 is equal to 1. The antenna-input connector can be installed directly to the interior antenna or connected to an optional AD-707A extension antenna. The input antenna connector provides power for an optional AD-707B antenna booster.

The **AD-707B** kit consists of a pair of receiving signal boosters operating between 620~960MHz which offer 13dB of gain to compensate for antenna cable loss or for when extra range is required. They will noticeably improve the S/N ratio, increasing the operating range and stability of received signals.

The **AD-707A** utilizes a 1/4-wavelength single pole ground-plane antenna optimized for the 620~960MHz frequency band. It will perform uniformly throughout the receiving band without modifying the antenna length and reflects side-band signals similar to a band-pass filter. The antenna impedance is 50 Ω and can be matched with any 50 Ω coaxial antenna cable. The ground-plane antenna allows stable reception without spurious emissions. The AD-707A kit contains 2 antennas and a pair of MS10 antenna mounts for securing the AD-707A to a wall or ceiling.

AD-707 Specifications:

1. Frequency Range: 620~960 MHz (11 Models)
2. Filter Bandwidth: 24 MHz \pm 3dB
3. Third Order Interception: + 22dB
4. Noise Figure: \leq 3.7dB (center band)
5. Input/Output Gain: 0dB (center band)
6. Output Port Isolation: 32dB minimum
7. Splitter Type: Wilkinson 1/4-wave
8. Connector: TNC type female
9. Power Supply: DC 12~18V
10. Current Drain: \leq 176mA

11. Dimensions: 19" (482mm) L x 7.5" (190mm) W x 1.7" (44mm) H
12. Weight: 3.4 lbs. (1.55 kg)

AD-707A Specifications:

1. Band Width (-3dB): 620~960MHz
2. Impedance: 50Ω
3. Connector: TNC plug male
4. Dimensions: 6.5" (165mm) L x 5.9" (150mm) diameter

Antenna Dividers for ACT UHF Systems

- AD-7076A (620~644MHz)
- AD-7076B (644~668MHz)
- AD-7076C (668~692MHz)
- AD-7079A (910~934MHz)

AD-707B Specifications:

1. Band Width: UHF 620~960MHz
2. Maximum Input Level: < +20dB
3. Noise Figure: < 1.3dB (center band)
4. Gain: +13dB (center band)
5. Input VSWR: ≤ 2.5
6. Power Supply: 8V DC, regulated
7. Current Drain: 80mA
8. Dimensions: 3.9" (100mm) L x 1.1" (28mm) diameter
9. Weight: 3.8 oz (107g)

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