



# TA52

## 806MHz UHF/VHF/FM High-Gain Launch Amplifier

**TRU SPEC**<sup>™</sup>  
A PICO MACOM REGISTERED TRADEMARK



- 68-Channel range 54-806 MHz (TV 2-69)
- 52dB high gain typical, provides excellent carrier-to-noise performance for superior picture quality
- 3 independently adjustable band, gain, and slope controls (VHF-low, VHF-high, UHF) for optimal carrier-to-noise ratio and easy system balancing
- Dual switchable input attenuators eliminate overloading and reduce harmonic distortion preserving picture quality
- Convenient front access switchable FM trap filter eliminates high level local FM radio stations reducing harmonic distortion
- -20dB output test point enables simplified setup and performance monitoring without service interruption
- Combined or separate VHF/UHF inputs provide application flexibility
- Internal multiplexer circuitry improves carrier-to-noise performance and provides reduced harmonic distortion when separate VHF and UHF inputs are used
- Front panel power indicator LED and fuse provides quick system trouble-shooting
- Internal power supply employs voltage surge protection circuitry for increased life

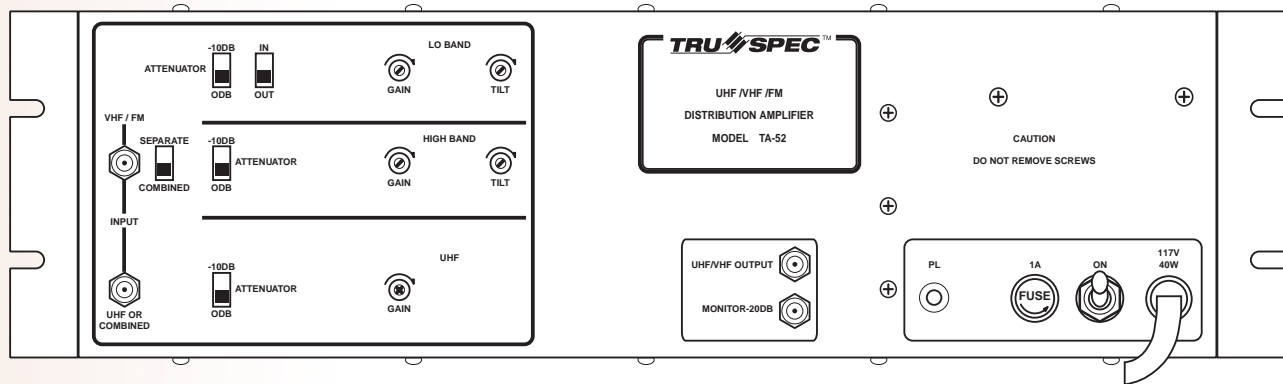
# TA52

## 806MHz UHF/VHF/FM High-Gain Launch Amplifier

The Pico Macom TA52 MATV launch amplifier provides a high 52dB gain output with extremely low noise and distortion. High reliability and rugged design make this amplifier ideal for medium to large MATV systems. The TA52 provides dual switchable input attenuators that protect the amplifier input from overdrive distortion by reducing the input signal level before the first amplifier stage. Front panel accessible controls provide optimum signal level adjustment. The internal band-split multiplexer accommodates separate UHF and VHF inputs, thereby reducing first stage amplifier channel loading improving distortion performance and ensuring the highest level of picture quality. Alternately, combined VHF and UHF signals from a broadband antenna can be inserted into the VHF input. The TA52 is equipped with a switchable FM (88-108 MHz) trap, which employs high-quality filters to remove strong local radio stations that cause picture distortion. Its wide bandwidth ideally suits the TA52 for use in MATV apartment distribution systems. The TA52 is commonly used as the launch amplifier following Pico Macom's MX7 and MX4U signal combiners used to balance signals prior to amplification, thus enabling maximum amplifier output capability. An internal power supply provides the convenience of a fully self-contained unit that can be mounted on a standard 19" rack.

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806MHz UHF/VHF/FM High-Gain Launch Amplifier



Front View

## Specifications

**Bandwidth:**

**Low Band:** 54-108 MHz  
**High Band:** 174-216 MHz  
**UHF:** 470-806 MHz

**Gain Minimum:**

48 dB

**Output Capability:**

60 dBmV (3 channels)

**Gain Control Range:**

10 dB minimum

**Input Attenuators:**

10 dB

**FM Band Rejection Switch:**

-20 dB minimum (95-108 MHz)

**Impedance, Input & Output:**

75 Ohms

**Noise Figure:**

5 dB UHF and 7 dB VHF

**Power Input:**

117 VAC 60 Hz 25 W

**Dimensions:**

19"(L) x 3"(D) x 5"(H)

**Weight:**

6.6 lbs.

**Test Point:**

-20 dB

## Channel Loading Specifications

Total # of Channels	Max. Input Level	Max. Output Level
3	8 dBmV	60 dBmV

## Ordering Information

**TA-52**