

mAT-4117 Bias-Tee

August 23, 2025

INTRODUCTION

mAT-4117 Bias-Tee is designed to combine a DC power supply and an RF signal onto a single coaxial cable, or to separate them from a single coaxial cable. When using it to control RF devices such as tuners, it eliminates the need for a separate power cable, thereby simplifying your setup.

Some mAT tuners come with a built-in Bias-Tee, and you can operate them directly with the mAT-4117. Additionally, you can use the mAT-4117 with other tuners that have a built-in Bias-Tee, even if they are not mAT products.

The mAT-4117 can provide a DC power supply of up to 50 V to other devices and can carry a maximum current of 1 A.

INSTALLATION INSTRUCTIONS

1. Connect the transmitter to the "RF" coaxial connector on mAT-4117 using a 50-ohm coaxial cable.
2. Connect the DC adapter to the "DC-IN" jack. The maximum allowable voltage is 50 V, and the maximum current is 1 A.
3. If the device you are using has a built-in Bias-Tee, connect it to the "RF&DC" coaxial connector on mAT-4117 using a 50-ohm coaxial cable.
4. If you wish to use two mAT-4117 units to power a device without a built-in Bias-Tee, simply connect the "RF&DC" coaxial connectors of the two mAT-4117 units using a coaxial cable. In this setup, you can input and output RF signals through their respective "RF" coaxial connectors, and supply or extract DC power via the "DC-IN" ports.



Specifications:

- Freq: 1.8MHz – 54MHz
- Impedance: 50 Ω
- DC Voltage: 1-50 V
- DC Current: 1 A max
- RF Isolation: >65 dB