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The BH4DDF BAL-501 is a 1:1 balun designed for Yagi and Dipole antennas, covering a frequency range of 1.8–54 MHz with a 50-ohm impedance, compact waterproof design, and easy mounting for amateur radio use [eBay +2](#).

[Images](#)[Videos](#)

Key Specifications

- **Type:** 1:1 current balun
- **Frequency Range:** 1.8–54 MHz (covers 160 meters to 6 meters)
- **Impedance:** 50 ohms
- **Power Rating:** Continuous 150 W, instantaneous up to 250 W
- **SWR Performance:** Less than 1.1 across the amateur frequency range [+2](#)
- **Construction:** Manually wound on **high-quality ferrite thickened nickel zinc high-frequency magnetic rings**
- **Dimensions:** Diameter 46 mm × length 70 mm
- **Weight:** Lightweight, suitable for outdoor antennas [+2](#)
- **Connector:** Nickel-plated SO-239 for low attenuation losses
- **Waterproofing:** Designed to withstand outdoor conditions, enabling installation in various weather scenarios [+2](#)

[+3 Sources](#)

Configuration and Installation Guidelines

- **Antenna Types:** Suitable for **Yagi antennas** and **Dipole antennas** configured in a positive V or inverted V shape.
- **Mounting:** Utilizes **U-bolts** for easy attachment to support rods or masts. The compact size allows it to be installed with minimal obstruction.
- **Orientation:** Ensure correct polarity when connecting to antenna elements and the feedline to maintain proper radiation pattern and SWR.
- **Power Handling:** Do not exceed 150 W continuous or 250 W instantaneous to prevent overheating or core saturation.
- **Feedline Connection:** Connect 50-ohm coaxial cable directly to the SO-239 connector on the balun to match the transmission line impedance [+2](#)

[+2 Sources](#)

Additional Notes

- This balun is primarily intended for **HAM radio amateur applications** and is convenient for setting up simple outdoor antennas.
- Due to its waterproof construction, it can be left outdoors permanently.
- The SWR performance ensures minimal signal reflection, providing efficient power transfer from the transmitter to the antenna [+2](#)
- During installation, verify that the feeding points of the antenna are secured, and avoid exceeding recommended power to maintain long-term reliability.

[+2 Sources](#)

In summary, the BH4DDF BAL-501 is a compact, high-quality 1:1 balun suitable for various shortwave