

# **MFJ**

## ***Wall-Mount Balun***

*Model MFJ-2912*

### **INSTRUCTION MANUAL**

CAUTION: Read All Instructions Before Operating Equipment

## **MFJ ENTERPRISES, INC.**

300 Industrial Park Road  
Starkville, MS 39759 USA  
Tel: 662-323-5869 Fax: 662-323-6551

## DISCLAIMER

Information in this manual is designed for **user purposes only** and is *not* intended to supersede information contained in customer regulations, technical manuals/documents, positional handbooks, or other official publications. The copy of this manual provided to the customer will *not* be updated to reflect current data.

Customers using this manual should report errors or omissions, recommendations for improvements, or other comments to MFJ Enterprises, 300 Industrial Park Road, Starkville, MS 39759. Phone: (662) 323-5869; FAX: (662) 323-6551. Business hours: M-F 8-4:30 CST.

## **MFJ-2912 Wall-Mount Balun**

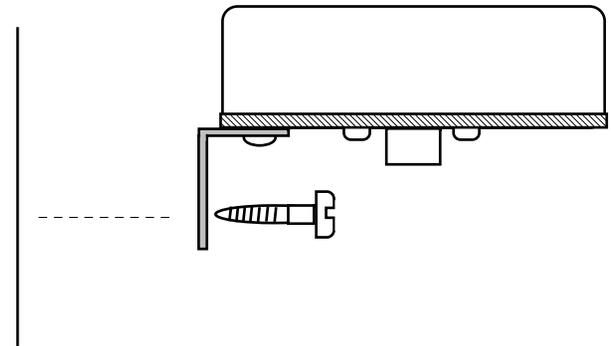
### **Introduction**

The MFJ-2912 is a wall-mounted 1:1 balun that keeps RF current traveling on the outside surface of coax cables away from station equipment and internal house wiring. It also prevents electrical noise generated in the building from migrating up to the antenna feedpoint and raising the receiver noise floor. The wall-mount packaging provides a convenient disconnect point for lightning protection. Disconnecting the antenna from the building is the most effective method for preventing equipment damage from on-site lightning strikes. Bottom-mounted SO-238 connectors keep rain away from coax connections and all-stainless hardware ensure maximum durability plus long product life.

The MFJ-2912 mounts on the exterior wall of your building to keep RF out of the shack and away from internal house wiring. It also prevents electrical noise generated in the building from migrating up to the antenna feedpoint and raising your receiver's noise floor. The toroid-style transmission-line choke is rated for maximum legal power on SSB and CW, and it delivers an impressive 30+ dB of through-transmission (S21) common-mode isolation on 80-10 meters. The exterior wall-mount package also provides a convenient disconnect point for lightning protection. The MFJ-2912 uses premium-grade SO-238 connectors that are mounted on the bottom surface of the enclosure to keep rain away from coax connections. All-stainless hardware and rugged components ensure maximum durability plus long product life.

## General Installation

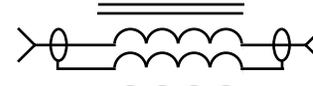
For typical residential applications, use the two wood screws provided for mounting the balun. Brick, masonry, or stucco surfaces will require purchasing and installing wall anchors made for the particular construction material used. Stainless-steel sheet-metal screws are recommended for mounting on metal buildings or utility boxes. RF Input and output connections are interchangeable. However, do not tie the two coax connectors together with a common ground wire, as this will bypass the balun and render it ineffective.



***Important Note:*** Always mount with the connectors facing downward to ensure maximum protection from water incursion.

## Specifications:

Impedance:	50 Ohms
Frequency Range:	1.5 – 50 MHz
Power Rating	1.5 kW PEP, SSB and CW (de-rate 50% for RTTY)

**Schematic Diagram:****Technical Assistance**

If you have any problem with this unit first check the appropriate section of this manual. If the manual does not reference your problem or your problem is not solved by reading the manual you may call *MFJ Technical Service* at **662-323-0549** or the *MFJ Factory* at **662-323-5869**. You will be best helped if you have your unit, manual and all information on your station handy so you can answer any questions the technicians may ask.

You can also send questions by mail to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, MS 39759; by Facsimile to 662-323-6551; or by email to [techinfo@mfjenterprises.com](mailto:techinfo@mfjenterprises.com). Send a complete description of your problem, an explanation of exactly how you are using your unit, and a complete description of your station.

**LIMITED 12 MONTH WARRANTY**

MFJ Enterprises, Inc. warrants to the original owner of this product, if manufactured by MFJ Enterprises, Inc. and purchased from an authorized dealer or directly from MFJ Enterprises, Inc. to be free from defects in material and workmanship for a period of 12 months from date of purchase provided the following terms of this warranty are satisfied.

**1.** The purchaser must retain the dated proof-of-purchase (bill of sale, canceled check, credit card or money order receipt, etc.) describing the product to establish the validity of the warranty claim and submit the original or machine reproduction of such proof of purchase to MFJ Enterprises, Inc. at the time of warranty service. MFJ Enterprises, Inc. shall have the discretion to deny warranty without dated proof-of-purchase. Any evidence of alteration, erasure, or forgery shall be cause to void any and all warranty terms immediately.

**2.** MFJ Enterprises, Inc. agrees to repair or replace at MFJ's option without charge to the original owner any defective product under warrantee provided the product is returned postage prepaid to MFJ Enterprises, Inc. with a personal check, cashiers check, or money order for **\$10.00** covering postage and handling.

**3.** This warranty is **NOT** void for owners who attempt to repair defective units. Technicalconsultation is available by calling the Service Department at 662-323-0549 or the MFJ Factory at 662-323-5869.

**4.** This warranty does not apply to kits sold by or manufactured by MFJ Enterprises, Inc.

**5.** Wired and tested PC board products are covered by this warranty provided **only the wired and tested PC board product is returned.** Wired and tested PC boards installed in the owner's cabinet or connected to switches, jacks, or cables, etc. sent to MFJ Enterprises, Inc. will be returned at the owner's expense unrepaired.

**6.** Under no circumstances is MFJ Enterprises, Inc. liable for consequential damages to person or property by the use of any MFJ products.

**7. Out-of-Warranty Service:** MFJ Enterprises, Inc. will repair any out-of-warranty product provided the unit is shipped prepaid. All repaired units will be shipped COD to the owner. Repair charges will be added to the COD fee unless other arrangements are made.

**8.** This warranty is given in lieu of any other warranty expressed or implied.

**9.** MFJ Enterprises, Inc. reserves the right to make changes or improvements in design or manufacture without incurring any obligation to install such changes upon any of the products previously manufactured.

**10.** All MFJ products to be serviced in-warranty or out-of-warranty should be addressed to:

**MFJ Enterprises, Inc.  
300 Industrial Park Road  
Starkville, Mississippi 39759 USA**

and must be accompanied by a letter describing the problem in detail along with a copy of your dated proof-of-purchase.

**11.** This warranty gives you specific rights, and you may also have other rights which vary from state to state.





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