

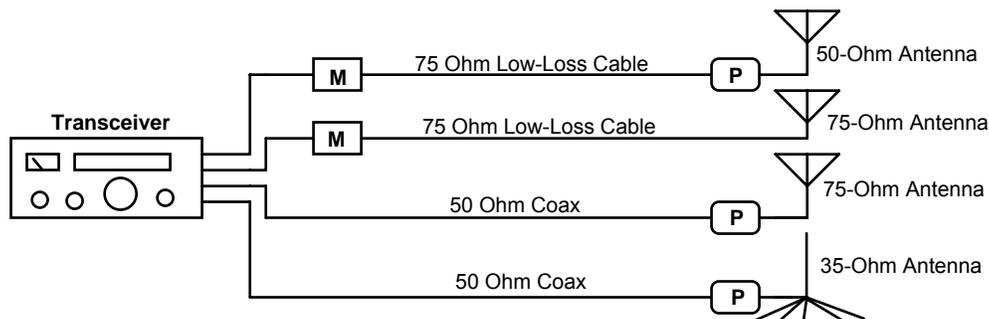
MFJ-2924M and MFJ-2924P RF Transformers Instruction Manual

Description: The *MFJ-2924M* and *MFJ-2924P* are in-line RF transformers that transition between 50Ω and 75Ω loads, or transition from 50Ω sources down to 35Ω loads. The *MFJ-2924M* is designed for indoor use and is housed in a fully shielded aluminum enclosure. *MFJ-2924P* is designed for outdoor use and is enclosed in a weather-tight PVC enclosure for protection. Both feature a large binocular ferrite-core transformer wound with silver-plated Teflon wire.

Specifications:

Input/output Impedance: 50Ω-75Ω, 75Ω-50Ω, 50Ω-35Ω
Power Rating: 1500-Watts PEP SSB/CW, ICAS
Frequency Span: 1.8-50 MHz
Insertion Loss: < 0.05 dB
Connectors: SO-239, Teflon dielectric

Suggested Applications: When raised high above ground, single or multi-band dipoles may present loads closer to 75Ω, creating a mismatch with 50Ω cable and reducing the antenna's 2:1 usable bandwidth. By the same token, 1/4-wave multi-band verticals with effective ground systems, some Yagis, and loaded antennas with shortened radiators may present loads down in the 35Ω range. Better to correct these matches *at the antenna* rather than in the shack. Also, for long transmission line runs, use transformers to feed surplus 75Ω cable-system hard-line and save money. See example setups below:



Precautions: Note that the *MFJ-2924M* is not weather protected and may sustain water damage if exposed to the elements outdoors. Also, note that all RF transformers are subject to a small amount of loss which becomes dissipated in the form of heat. As a result, the *MFJ-2924* may exhibit excessive heat buildup during sustained high-power operation due to limited air flow within the enclosure. Avoid exceeding specified power limitations, and de-rate as necessary if heating occurs. Finally, before applying RF power, always confirm transformers have been installed in the right direction to yield the intended impedance transition. Reverse orientation will result in elevated SWR.

12-MONTH LIMITED 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 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. MFJ Enterprises, Inc. will supply replacement parts free of charge for any MFJ product under warranty upon request. A dated proof of purchase and a **\$8.00** personal check, cashiers check, or money order must be provided to cover postage and handling.
4. This warranty is **NOT** void for owners who attempt to repair defective units. Technical consultation is available by calling (662) 323-5869.
5. This warranty does not apply to kits sold by or manufactured by MFJ Enterprises, Inc.
6. 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.
7. Under no circumstances is MFJ Enterprises, Inc. liable for consequential damages to person or property by the use of any MFJ products.
8. **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.
9. This warranty is given in lieu of any other warranty expressed or implied.
10. 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.
11. All MFJ products to be serviced in-warranty or out-of-warranty should be addressed to **MFJ Enterprises, Inc., 300 Industrial Park Rd, 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 and a telephone number.
12. This warranty gives you specific rights, and you may also have other rights, which vary from state to state.