

# MFJ

## VERSALOAD

Model MFJ-250

MFJ-250X does not include  
MFJ TRANSFORMER OIL.

The MFJ-250 Versaload provides a versatile method of loading a RF transmitter. The oil cooled resistive element is capable of dissipating 1 KW of RF power and provides low VSWR up to 400 MHz.

### OPERATION

Fill the VERSALOAD pail to within  $\frac{3}{4}$ " of the top with MFJ TRANSFORMER OIL. This is required for proper oil circulation and cooling of the resistive element. Mineral oil may be used, but **DO NOT USE ANY TYPE OF MOTOR OIL**. Motor oil does not have a sufficiently high vaporizing temperature and will cause excessive vapor. **MFJ Transformer Oil does not contain PCBs (Poly Chlorinated Biphenyls)**.

Before operating the VERSALOAD study the duty cycle chart in Figure 1. If you are uncertain of the power level being supplied, assure safe operation by frequently touching the side of the pail near the bottom with your fingers. If the side of the pail is too warm to allow your fingers to remain, or if vapor is coming from the can, turn off the RF transmitter until the oil cools. If vapors appear at power levels less than 200 watts, the oil level should be checked.

### WARNING

Care must be taken in handling the oil. Wash hands after filling the pail. Keep the oil away from food and out of the reach of children. If the VERSALOAD overheats, **DO NOT BREATHE THE VAPORS** and turn off the RF transmitter.

### Derating curve

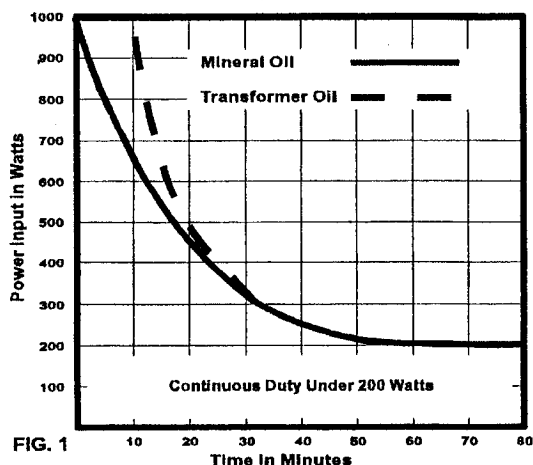


FIG. 1

### Specifications

IMPEDANCE: 50 Ohms, Resistive

VSWR: < 1.2:1 (Freq: 0-30 MHz)  
< 1.5:1 (Freq: 30-300 MHz)  
< 2.0:1 (Freq: 300-400 MHz)

#### POWER

DISSIPATION: 1000 Watts continuous,  
10 minutes; see derating  
curve (Transformer Oil)

DIMENSIONS: 7-1/2" High x 6-5/8"  
Diameter

NET WEIGHT: 1.5 Lbs. (Oil weight not  
included)

## 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 warranty provided the product is returned postage prepaid to MFJ Enterprises, Inc. with a personal check, cashiers check, or money order for **\$7.00** covering postage and handling.
3. This warranty is **NOT** void for owners who attempt to repair defective units. Technical consultation 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 unrepared.
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.