

## MFJ-1046 PASSIVE PRESELECTOR

### Introduction

The MFJ-1046 Passive Preselector is designed to reduce receive overload from strong out of band signals. It contains selective circuits that cover 1.6 to 33 MHz in six steps, providing the greatest selectivity on the lowest frequencies where overload is most common.

The MFJ-1046 has two rear panel SO-239 connectors for RF connections and a bypass switch to take the unit in and out of the circuit.

### Installation

Connect the MFJ-1046 Passive Preselector between your antenna and receiver as shown in Figure 1. The **Radio** connector goes directly to the receiver with a short well shielded lead; the **Antenna** connector goes to the antenna.

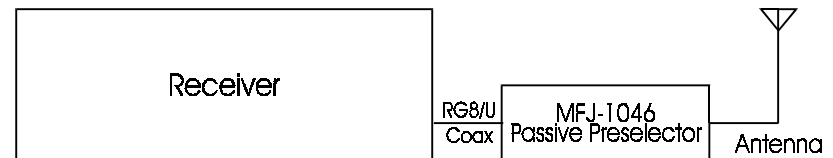


Figure 1

**WARNING:** NEVER connect an amplifier or transmitter to the MFJ-1046 Passive Preselector. Failure to follow this warning may cause MFJ-1046 Passive Preselector or other equipment to be damaged.

## Operation

With the MFJ-1046 Passive Preselector properly connected, simply turn the **Band** switch to the desired band and adjust the **Tune** control for maximum signal level. With the **Bypass** switch depressed, the MFJ-1046 Passive Preselector becomes active.

Adjust the **Tune** control for maximum signal level. The maximum loss on the desired amateur band is less than 5dB if the correct frequency range is selected.

**Note:** Always use the highest frequency band range that covers the desired band for minimum loss.

Typical frequency response is shown in Figure 2.

A: Transmission Loss

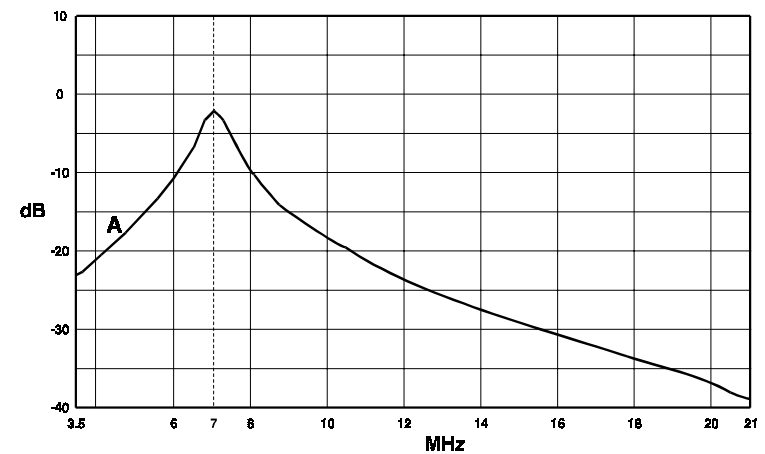


Figure 2

## 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 **601-323-0549** or the *MFJ Factory* at **601-323-5869**. 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 601-323-6551; 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.

## Parts List

Designator	Description	P/N
C8	Capacitor, 0805, 68pF	200S-0068
C6	Capacitor, Air Var., 6-200uF	204-5160
L2	Inductor, Grn-Blu-Gld, 5.6uH	401-3560
L1	Inductor, Brn-Grn-Blk, 15uH	401-4150
L5	Inductor, Brn-Grn-Slv, .15uH	401-2150
L3	Inductor, Red-Red-Gld, 2.2uH	401-3220
L4	Inductor, Blu-Gry-Slv, .68uH	401-2680
L6	Inductor, Choke, 1A, 39uH	401-4390-1
T1, T2	Bead, Ferrite, 4T, #73	412-3801
SW2	Switch, Rotary, 2P6P	500-1565
SW3	Switch, Vert., 2P2P, Lock	504-4022
ANT, RADIO	Connector, UHF, 4 Hole Mt.	610-2005

## **Schematic**