

MF SOLUTIONS

630 Meter Transmit Converter

The ***MF SOLUTIONS*** MF Transmit Converter offers an easy entry into transmitting in the low medium frequency range of 460 – 480 KHz ... below the AM Broadcast band.

Intended for amateur radio and experimental use, the converter, inspired by Roger G3XBM, interfaces to an existing HF transceiver and appropriate antenna system.

The goal of this project was to produce an easy to build, reproducible, minimal parts count, low cost device to encourage experimenters to populate the New Frontier presented by the medium frequencies! The kit is provided with a custom, professional PCB, 2.75"x4.25", with solder mask and silkscreen.

SPECIFICATIONS

INPUT: 3.66-3.68 MHz (80 meter band) or 4.46-4.48 MHz @ 0.1-0.5 Watts

OUTPUT: 460-480 KHz, 22-25 W into 50 Ohms, non-reactive load

EFFICIENCY: >90%

DC INPUT: 13.6V @ 2.2A maximum (1.8-2.0A typical)

HARMONIC OUTPUT: minimum 50 dB below fundamental

NO TUNE DESIGN: No special test equipment required, "Plug 'N Play"! No Surface Mount

MODES: CW, MSK, FSK, "WSPR" supported (NO linear modes)

OPTIONS

-Receive Loopback to transceiver

-Local Oscillator Crystal – 3.2 MHz or 4.0 MHz base frequency-user selects, 1 provided per kit

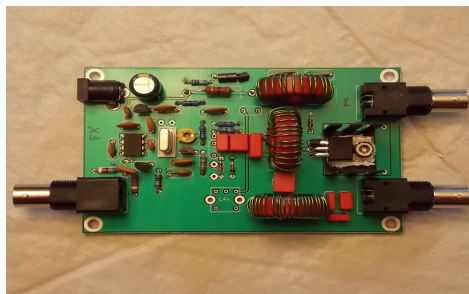
-10 MHz Reference Input (replaces LO crystal) from GPS or Rubidium base

-Low level drive tap for external high power amplifier - ~12V p-p square wave

-Custom aluminum enclosure, undrilled endplates

-Assembled and tested unit available, call for details

Complete TX Converter w/10 MHz Option



PRICE LIST

Complete Kit with 3.2 or 4 MHz Crystal \$75.00 shipped USA (overseas per rates)

10 MHz Option \$5.00 RX Loop Back Option \$3.00

Built and Tested Kit, Burned in On Air – \$95.00 shipped

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PRICES / SPECIFICATIONS Subject To Change – Appropriate FCC License To TX Required