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 @ 0.1-1.5 Watts
Higher/Lower drive OK with straightforward resistor change...

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

**EFFICIENCY:** >90%

**DC INPUT:** 13.6V @ 3.5A maximum (2.5-3.0A 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**

- Local Oscillator Crystal – 3.2 MHz or 4.0 MHz base frequency-user selects, 1 provided per kit
- PTC thermistor stabalized, +- 1 Hz drift after 5 minutes
- 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
- Assembled and tested unit available, call/e-mail for details

*Complete TX Converter w/10 MHz External Stability Option*

**PRICE LIST**

Complete Kit with 3.2 or 4 MHz Crystal  $75.00 shipped USA (overseas per rates)
10 MHz Option  $5.00
Built and Tested Kit, Burned in On Air – $95.00 shipped 1st Class

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**PRICES / SPECIFICATIONS Subject To Change – US General+ FCC License To TX Required**