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, 19-22 W into 50 Ohms, non-reactive
EFFICIENCY: 78% - 83%
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”!
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
-Custom aluminum enclosure
-Assembled and tested unit available

PRICE LIST
Complete Kit with 3.2 or 4 MHz Crystal $75.00 + $5.80 Priority Shipping
Custom Aluminum Enclosure (allow 2 weeks) w/milled panels $25.00 + ship
10 MHz Option $5.00 + ship RX Loop Back Option $3.00 + ship
Built and Tested Kit – Please Call or E-Mail for details

MF SOLUTIONS PO BOX 311 BENSON, VT 05731 (802) 537-3593 WA3ETD@gmail.com
John WA3ETD Peter N1DYL & SPECIAL TNX John KB5NJD Beta-testing and Marketing

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