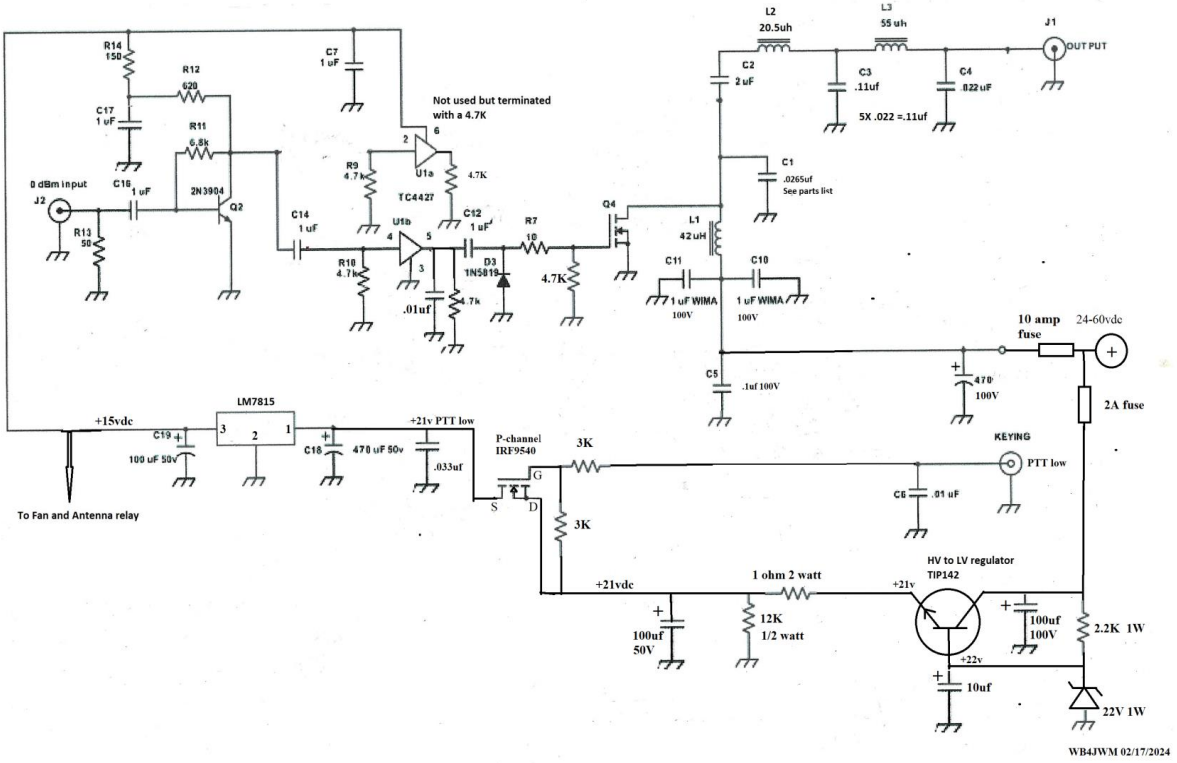
2200M 100-500 Watt Amplifier

Q4 G2R40MT12D



Larger print on page 3.

Parts BOM

L1 42uh, one T200-2, 59 turns #16

L2 20.5uh, two T200-2, double stacked 30 turns #16

L3 55uh, two T200-2, double stacked 48 turns #16

C1 .0265uf, (.022uf + 1200p + 3300p) is the combination I used.

C3 .11uf, five .022uf in parallel.

C4 .022uf

All capacitors are WIMA pulse 400vac FKP or MKP, P indicating pulse type.

C2 2uf, or two 1uf WIMA pulse. This capacitor can be a 250vac. Smaller size helps with space on the board.

LM7815 regulator. The regulator must be a 7815, 15-volt regulator. A 15V pulse from the TC4427 is required for the necessary gate drive for the G3R40MT12D MOSFET.

TIP142 regulator will need to be mounted on a heatsink. I used the amplifier chassis.

IRF9540 switch, does not require a heatsink.

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