



All resistors and capacitors are 1206 SMD packages unless otherwise noted.
 C19 is 1000uF, 100V, electrolytic capacitor, 7.5mm lead spacing, Mouser 667-ECA-2AHG102.
 C26 is 100uF, 25V, electrolytic capacitor, 5mm lead spacing, Mouser 647-UKL1E101KPD1TA.
 C28 consists of two 27pF ceramic capacitors in 2512 SMD packages installed in place of R1 and R3 on the PCB.
 A jumper should be installed in place of R2 on the PCB.
 J1 & J2 are SMA PCB connectors, Mouser 523-132136.
 J3 is 2 position right angle friction lock header, 3.96mm pitch, Mouser 538-26-60-5020.
 J4 & J5 are 2 position straight friction lock headers, 2.54mm pitch, Mouser 538-22-23-2021.
 L1 & L2 are 47nH fixed inductors, Digikey 535-12415-1-ND.
 L3 is 22uH toroidal line choke, Wurth S14100034, Mouser 710-S14100034.
 L4 is 47uH fixed inductor, Mouser 81-LQH31MN470K03L.
 Q1 is MRF101BN, Mouser 771-MRF101BN.
 Q2 is MRF101AN, Mouser 771-MRF101AN.
 Q3 is ZVP2106GTA, P-Ch MOSFET, Mouser 522-ZVP2106GTA.
 RV1 & RV2 are 10K ohm trimmer resistors, Mouser 72-163YB-10K.
 T1 is BN-43-202 binocular ferrite core with primary of 2 turns #26 AWG wire and secondary of 1 bifilar turn #26 AWG wire.
 T2 is two (2) Fair-Rite Type 43 ferrite cores stacked with 5 parallel turns of RG316 coax. Fair-Rite PN 5943007601.
 T3 is two (2) Fair-Rite Type 43 ferrite cores stacked with 5 turns of RG316 coax. Fair-Rite PN 5943007601.
 U1 is UA78L05ACDR 5V 100mA linear regulator in 8 SOIC package, Digikey 296-1364-1-ND.

Refer to www.ad5gh.com for further details and attribution.

AD5GH

Sheet: /

File: MRF101 200W HF Amp_v3.sch

Title: MRF101 150W Broadband HF Amplifier

Size: USLetter Date: 2023-05-20

Rev: 3.0

KiCad E.D.A. kicad (5.1.2)-2

Id: 1/1