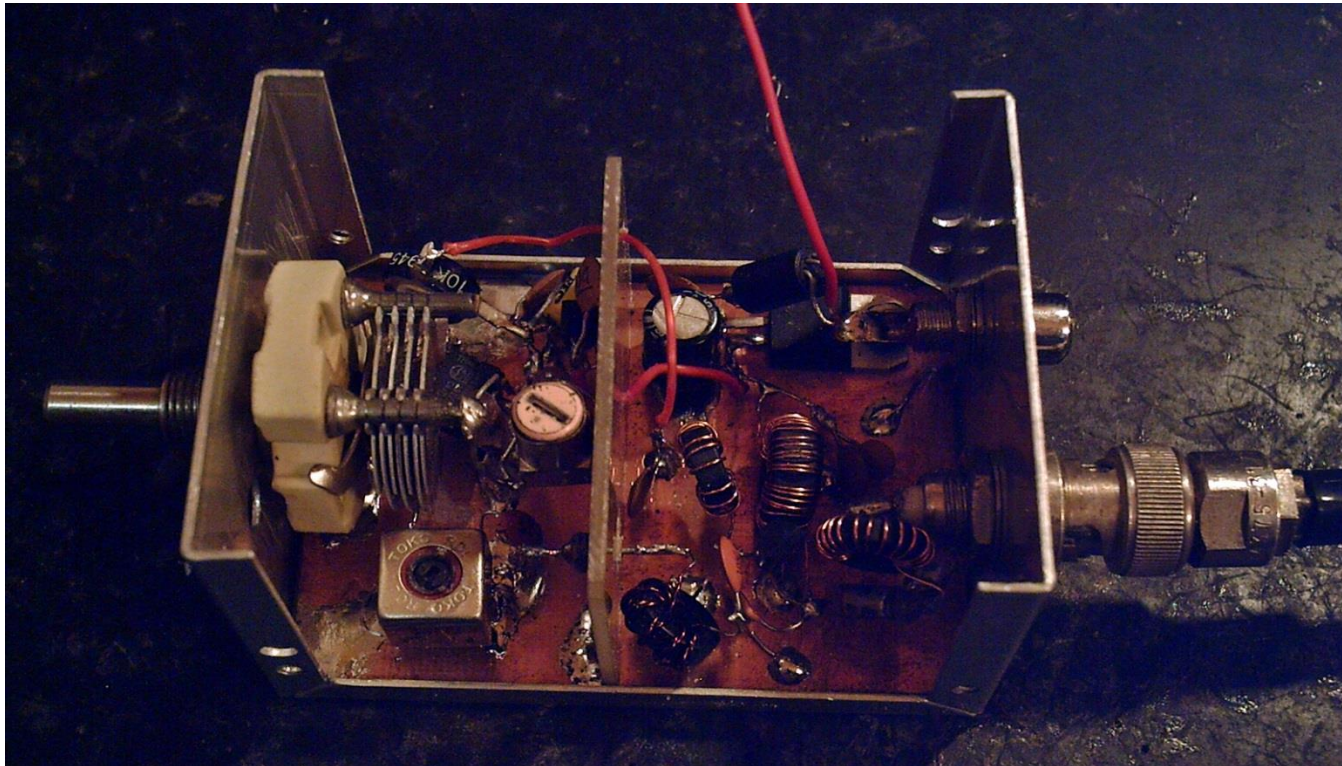


# VFO Project for 80 Meter Band



SA602 VFO + Class E Mosfet Amplifier

# HF VFO SA602 + CLASS E Driver

Easy project, for a very stable VFO with 200 KHZ tune on 3.5 Mhz

You can use also PIN 1 of SA602 as a CW Key ( TX to Ground )

Use Silver Mica or Polestirene Capacitor for VFO

You can increse 30 PF variable air capacitor to have more range.

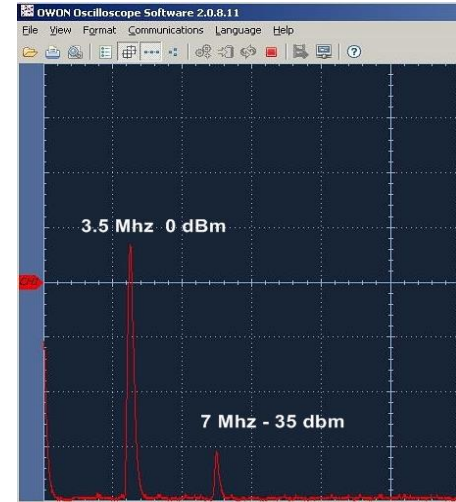
**SA602** output after matching filter – 20 dbm at 3.5 mhz

**Class E** use a BS170 mosfet + 20 db Gain and dedicate output filter at 50 ohm

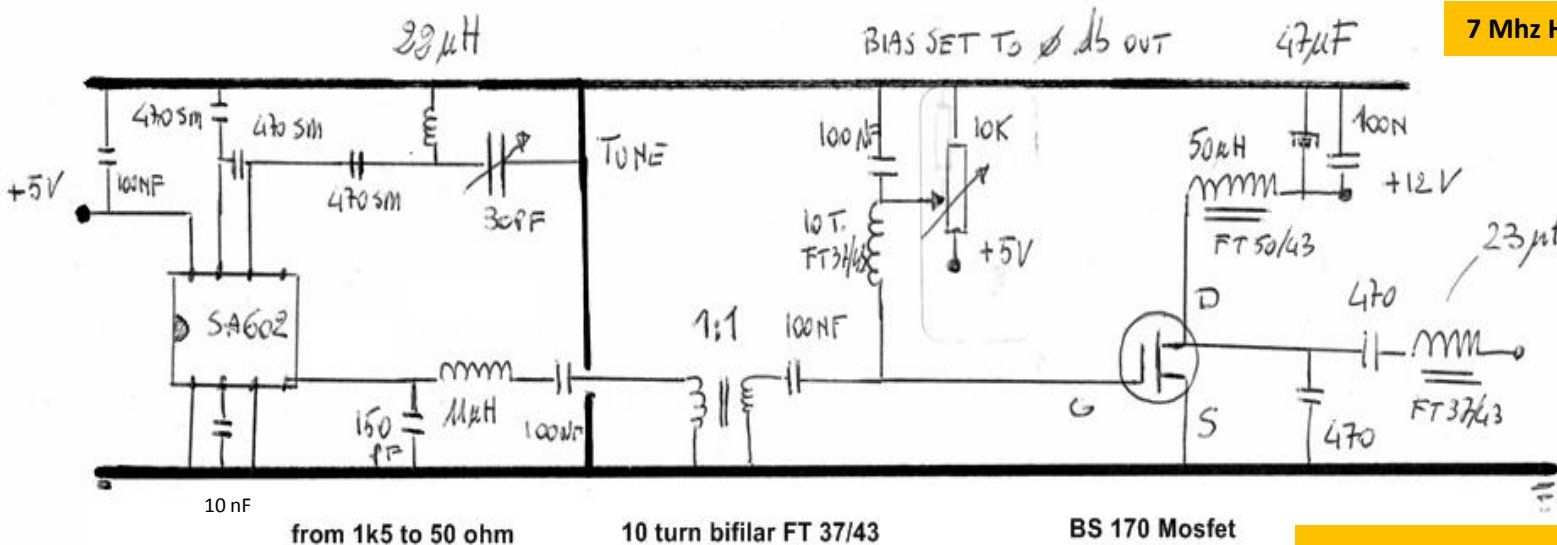
**Bias Set** regulated for 0 dbm RF output ( more or less 2,4 V on gate )

at this level plastic mosfet remains cold, without a heat sink.

**Construction:** with RF shielding an bypass filter on 12V and 5 V ( as usual )



7 Mhz Harmonic – 35 dBm down



from 1k5 to 50 ohm

10 turn bifilar FT 37/43

BS 170 Mosfet



+ 0 dBm OUT 3.5 Mhz  
calibrated with 1 db loss of instrument's Head

# VFO Project for 80 Meter Band

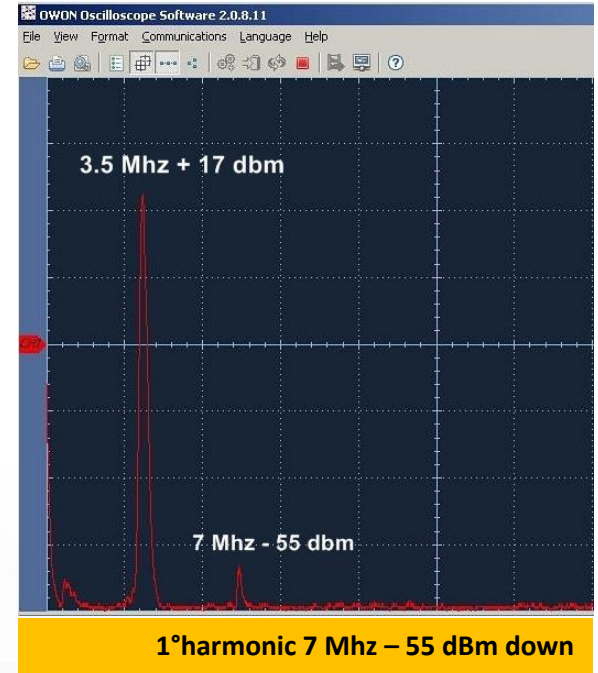
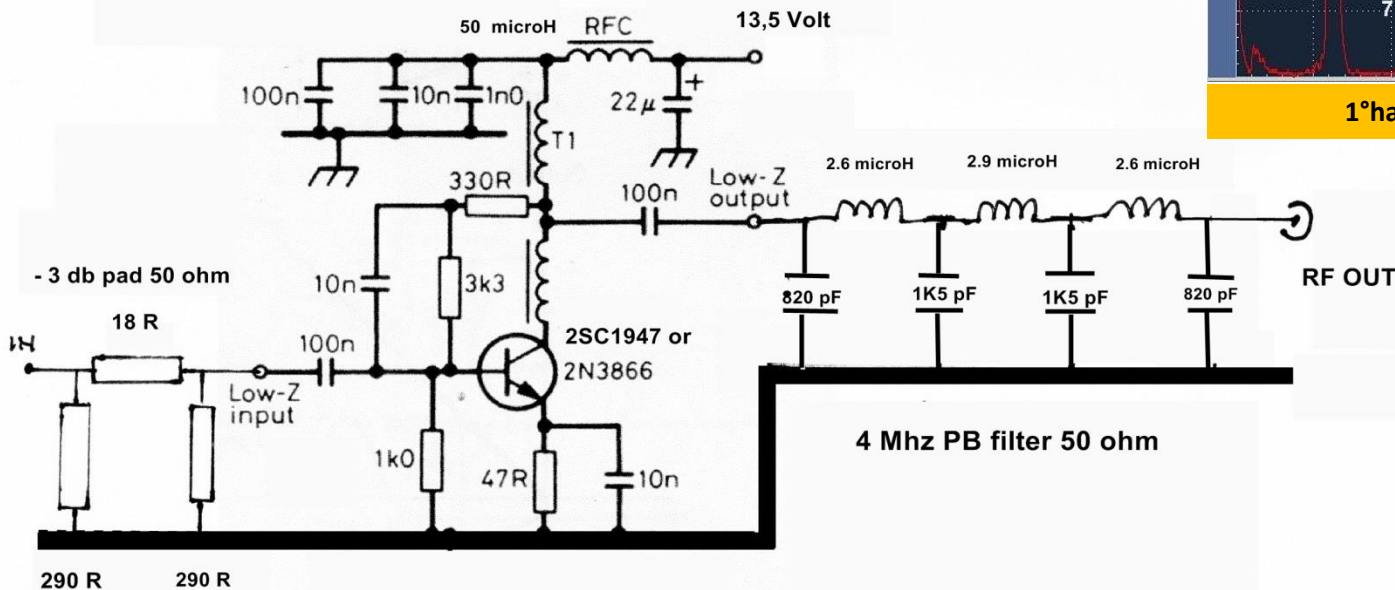


Classic Driver 50 mW Class A + Filter PB 50 Ohm

# Class A Driver 20 dB Gain HF band

Classic schematic and easy project, to change band you have to recalculet only the output filter for a new band. Max Power out 200 mW with + 6 db RF IN.

- T 1 output transformer** = 12 bifilar on FT 37/43 or FT 50 /43
- RF IN** = 0 dBm at 3.5 Mhz **OUT** + 17 dBm = 50 mW
- Class A** require a good heatsink on the transistor



**+ 17 dBm out 3.5 MHz / 50 mW**  
Measure calibrated with 1 db loss of instrument's Head