

Felpham Measurement pcb – changes between V1 and V1.2.

The resistor and capacitor, R45, C27, that were the subject of the Errata sheet are now on the board.

Oscillator

R32 was a 4k7 on V1. I have found that a parallel combination of 5k6 and 39k gives a better sine wave. 4k7 does work however.

Oscillator Output.

R37 and RV5 set the oscillator output. The actual value is not particularly critical so long as R37 and RV5 have the approximately the same value.

So RV5 as 10k requires R37 to be 10K

RV5 as 5K requires R37 to be 5k1

Output voltage scaling.

The output voltage for the anode and screen volts is selectable when assembling the board.

If a scaling of 1V per 100V of HT is required then fit the following values

R11 and R13 - 91k, RV1 and RV2 - 20k, R24 - 56k

If a scaling of 0.1V (100mV) per 100V of HT is required then fit the following values

R11 and R13 - 91k, RV1 and RV2 - 20k, R24 – 8k2

low pass 20Hz filter

V1 used 1uF capacitors, I realized that 0.1uF caps are easier to obtain and changed R31 and R32 accordingly.

If using 1uF caps for C17 and C21 then R31 and R34 are 8k2

If using 0.1uF caps for C17 and C21 then R31 and R34 are 82k