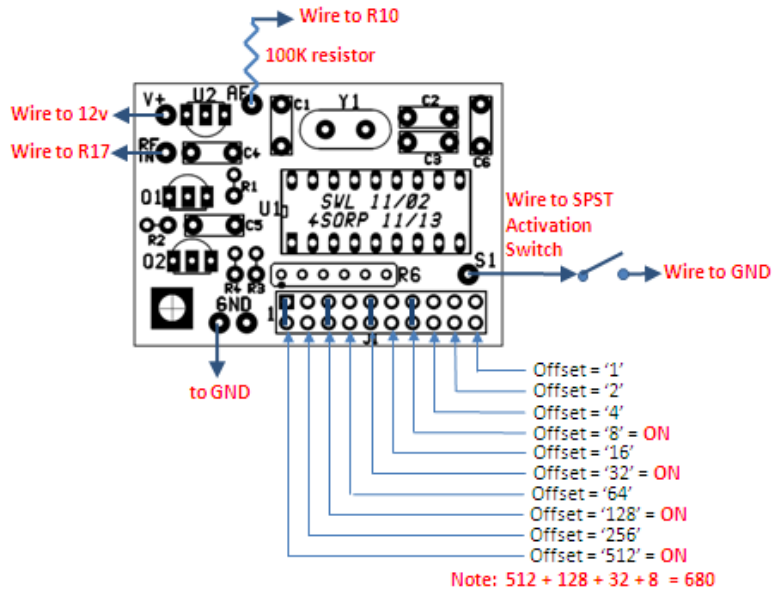


FreqMite Installation in the CWTD SW30+

By Craig Johnson, AAØZZ



Install the following connection wires:

- 1) Wire from the "V+" pad to the "switched side" of the power switch on control. (Want power to FreqMite only when switched on.)
- 2) Wire from either of the two "GND" pads to a convenient ground, such as grounded side of input power jack.
- 3) Wire from the "RF" pad in to top of resistor R17
- 4) Install one end of a 100k resistor in the "AF" pad and run a wire from the other end of the resistor to the top of resistor R10. (Increase 100k to a higher value for if volume is too loud, decrease if volume is too low.)
- 5) Wire from the "S1" pad to one side of the SPST pushbutton and wire from the other side of the pushbutton to ground)

Set jumpers as follows:

The IF frequency of the SW30+ is 7.680 MHz. Per K1SWL instructions, you ignore the MHz which leaves "680". Convert "680" to 10 binary bits and get "1010101000". Encode using 10 jumpers as follows:

Starting with side of J1 marked "1" (the "highest-order" bit)

- Pin 1 (512) – jumper
- Pin 2 (256) – no jumper

Pin 3 (128) – jumper
Pin 4 (64) – no jumper
Pin 5 (32) – jumper
Pin 6 (16) – no jumper
Pin 7 (8) – jumper
Pin 8 (4) – no jumper
Pin 9 (2) – no jumper
Pin 10 (1) – no jumper

Note that adding the values of the bits with jumpers gives:

$512 + 128 + 32 + 8 = 680$ <<< This is what we want for the IF of 7.680 MHz

When power is applied to the FreqMite you will hear “S?” in CW in the headphones. Press and release the pushbutton at this time if you want frequency annunciations to be sent with “high speed” (26 wpm) CW. Do not press the pushbutton if you want the frequency annunciations to be sent with “low speed” (13 wpm) CW. Next you will hear “I?”. Do not press the pushbutton at this time since the IF frequency is already set up correctly via the jumpers.

That’s it! Enjoy your FreqMite.