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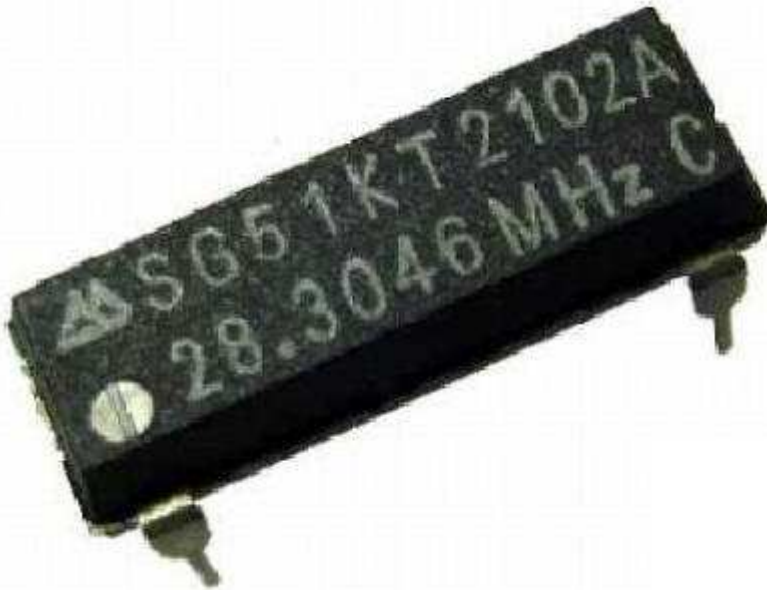
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Low Power 10 Meter QRP Transmitters for beacons, fox hunts, alarm transmitters.....



Very Narrow Frequency Spread < 200 Hz between units

Amateur Radio HAMs, get your 10 Meter QRP NET on the air FAST and SIMPLE with these self contained low-power "transmitters".

These are clock oscillators in a DIP 14 style package. The nominal frequency falls nicely inside the Novice/Tech+ segment of the 10 Meter HAM band (28.1 to 29.5 MHz).

Add some reality to those code practice sessions by actually going on the air while you learn real life NET operating skills!

If your receiver has a product detector or BFO, use these in CW (carrier) mode. You can identify different stations by the slight variations in frequency. If you are using an AM-only receiver, just add a simple modulator, such as the example below, for MCW (modulated CW). Choose different values of resistors and capacitors for different tones.

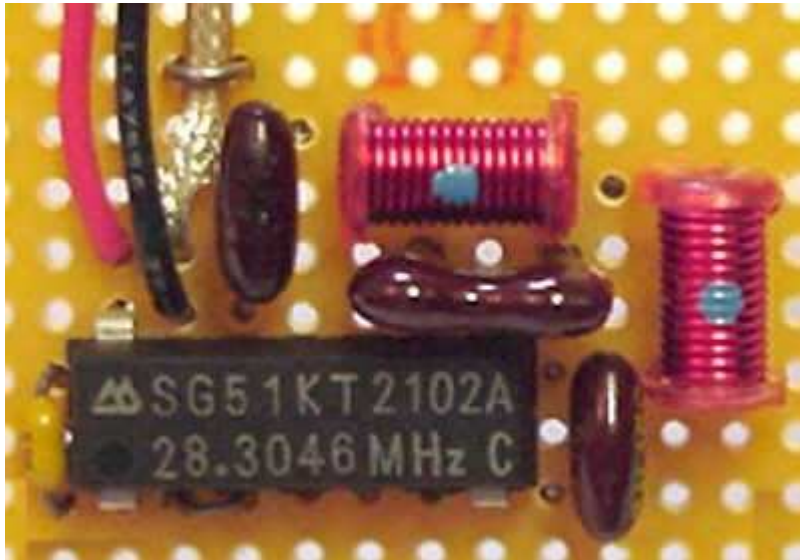
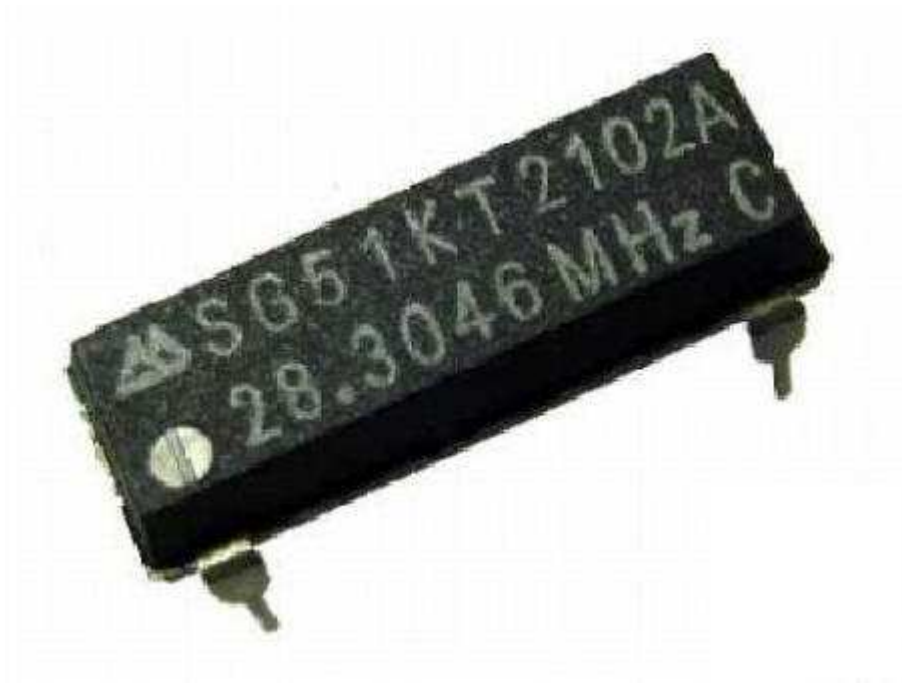
PRECISION - UNITS SORTED by FREQUENCY

All are well within the Novice/Tech+ band and can be heard without retuning the receiver. This set has a high to low frequency spread of less than 200 Hz. Although the data sheet claims a much wider +/- 100 ppm frequency stability, these were 100% tested and sorted to achieve this very tight grouping. The average frequency of the set is within 1 KHz of the

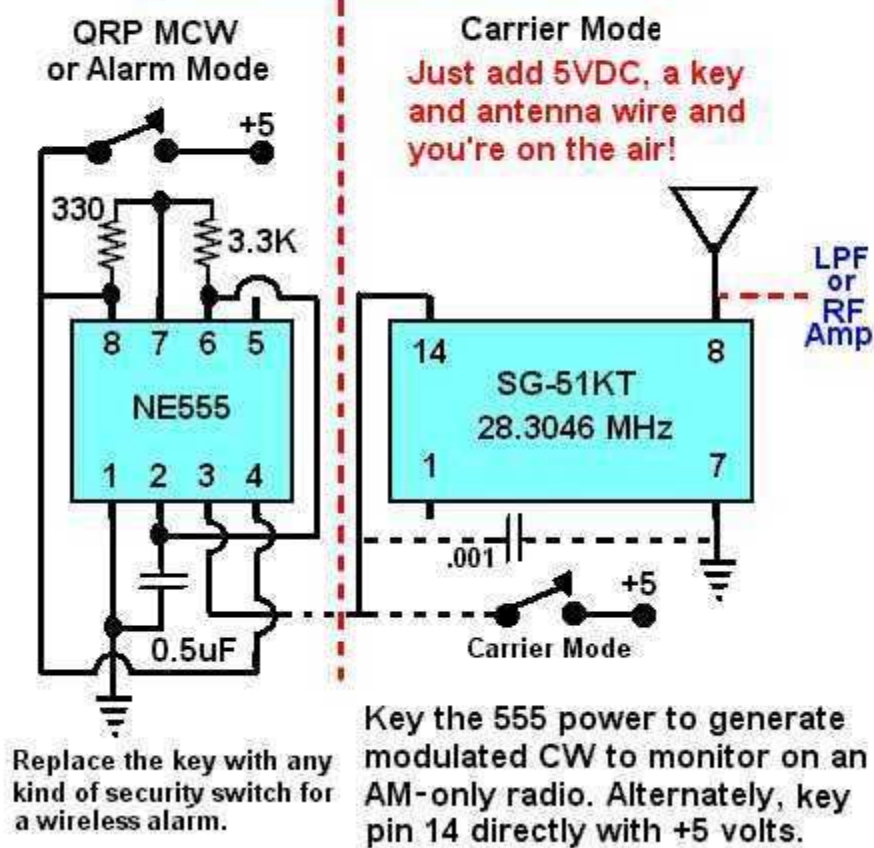
nominal . (Note: That is not an adjustment screw in the corner, just part of the molding.)

EXTREMELY SIMPLE WIRING

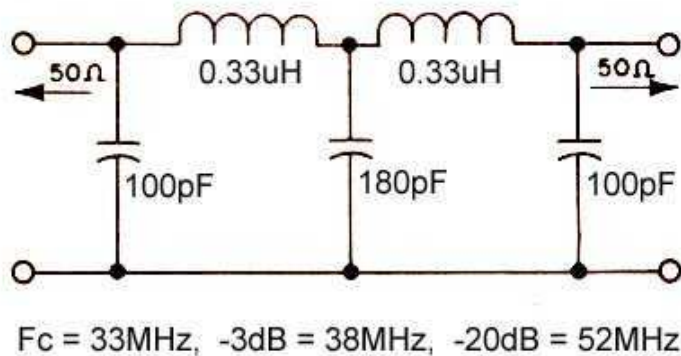
For CW mode, just ground pin 7, connect a LPF and antenna to pin 8 and key +5 VDC to pin 14 and you're on the air. (Add a 0.001 μ F bypass directly across pins 7 & 14 for improved oscillator stability.) Can't get any simpler!



Simple QRP transmitter for the Novice / Tech+ 10M HAM band.



10 Meter QRP Low Pass Filter



2003 RAS

LONG RANGE

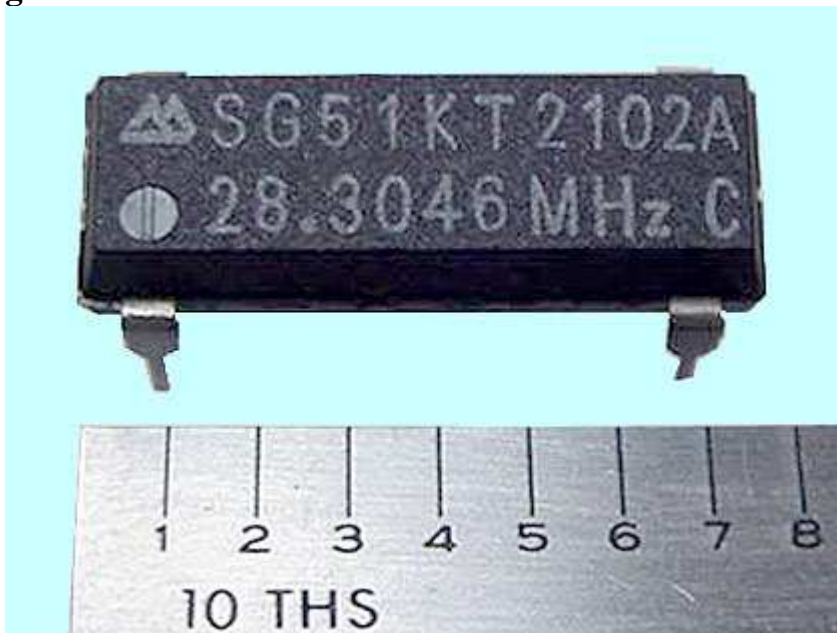
Of course range varies widely and avid QRP'ers know that it's the antenna, antenna, antenna that is the key. But as an example, I took a *QRP Xmtr w/LPF Assembly* and GPS tracker on the road. I grounded pin 7 to the car and draped an antenna wire over the seat. As the crow flies, it was still readable over 1.5 miles away on a short wave receiver connected to a roof level vertical. Imagine what it will do when you connect it to your beam! (The output is TTL so you'll want a *Low Pass Filter* to suppress harmonic radiation. TV channel 2 is the second harmonic.)

WIRELESS ALARMS ANYWHERE

Wire a door, gate, pool level detector, thermostat -- anything that can switch 5 Volts. Use 4 AAA's and a diode to drop the voltage to about 5.5V. For short distances, an antenna is not needed. A stable receiver or scanner can cover the perimeter of your yard. Carrier mode is the simplest method. A simple 555 oscillator, such as the one shown in the MCW schematic above, will modulate the transmitter if you prefer a tone. Different resistors and capacitors will produce different tones for easy identification of different monitoring/alarm stations.

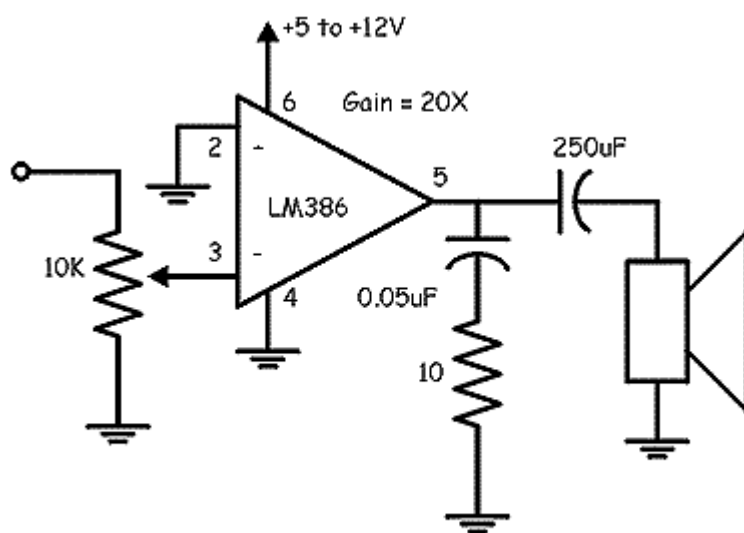
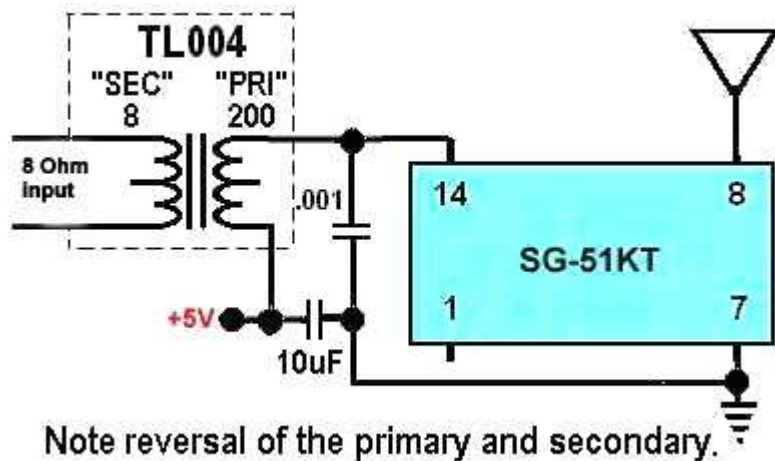
Other possibilities:

- **10M Fox Hunt**
- **Beacon**
- **Add a divide by 2 IC circuit for a 20 Meter HAM band output.**
- **Add a divide by 4 IC circuit for a 40 Meter HAM band output.**
- **Add a divide by 8 IC circuit for a 80 Meter HAM band output.**
- **Add a LPF and a small amp on your band of choice for a serious QRP transmitter.**
- **Note: Configurations and applications vary and performance varies. Please review FCC Part 15 and Part 97 if you are not certain your particular use is in compliance. The suggestions above are not intended to promote illegal or improper use. It is the amateur's responsibility to ensure the completed transmitter is in compliance and that it's operation does not interfere with other equipment.**
- **\$5.00 each... while limited supplies last. One time offer. 10 of each in stock. when their gone..their gone.**



- **ADD AUDIO.....**

TL004 as a Modulation Transformer



Note, remove the speaker, 10kpot, and just

wire

- 2 and 3 for audio input and where the speaker is wire in the tloo4 transformer. LOUD! Use lm386-3.

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