

Circuit based on the design of Roelof Bakker, PA0RDT

More information can be found here: http://dl1dbc.net/SAQ/miniwhip.html Check the links at the bottom of the page and download the .PDF files.

It seems the J310 is becoming difficult to find in the TO92 package. I have added a footprint (Q3) for the SOT23 package style.

If using the surface mount FET, use a good soldering pencil. Put a small blob of solder on one pad only.

Use tweezers to hold and position the part while soldering it to the one pad with solder on it.

If the part positioning is good - you can then solder the remaining two pads without the part moving.

All resistors are 1/4 watt on a .400" lead pitch.

Lead pitch for all disc capacitors is .200"

Lead pitch for capacitor C9 is .100"

Value of the disc capacitors is not critical. I have seen values from .1uF to .56uF in various articles on line.

Value for the inductors is not critical. I have seen values from 470uH to 1mH

The extra pad next to the inductor L1 is to accommodate larger inductors with a .400" lead pitch.

The potentiometer VR1 may be omitted from the circuit. If you decide to build it this way, change the value of R9 to $1M\Omega$ and short the 2 ungrounded pads of VR1 Diode D1 can be just about any type. Note the polarity.

Circuit can be operated from 12 to 15VDC. Note the polarity on the connector.

Power connector lead pitch is .100"

International Circuits					
WhipKit Amplified Antenna					
Size	WhipKit1				Rev
8.5 x 11"	WhipKit1 WhipKit.SchDoc				A
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