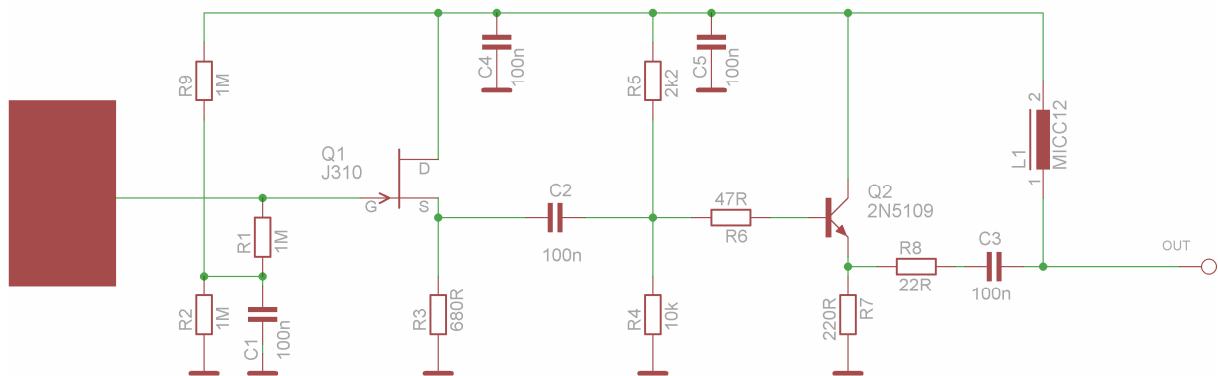


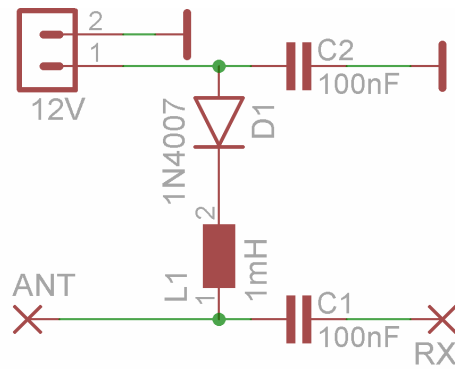
MINIWHIP ACTIVE ANTENNA DIY KIT



Antenna schematic and finished PCB



Part	Value	Marking
C1-C5	100n	104
L1	470uH	
Q1	J310	J310
Q2	2N5109	2N5109
R1	1M	Brown-Black-Green-Gold
R2	1M	Brown-Black-Green-Gold
R3	680R	Blue-Gray-Brown-Gold
R4	10k	Brown-Black-Orange-Gold
R5	2k2	Red-Red-Red-Gold (Red-Red-Black-Brown-Brown)
R6	47R	Yellow-Purple-Black-Gold
R7	220R	Red-Red-Brown-Gold
R8	22R	Red-Red-Black-Gold
R9	1M	Brown-Black-Green-Gold

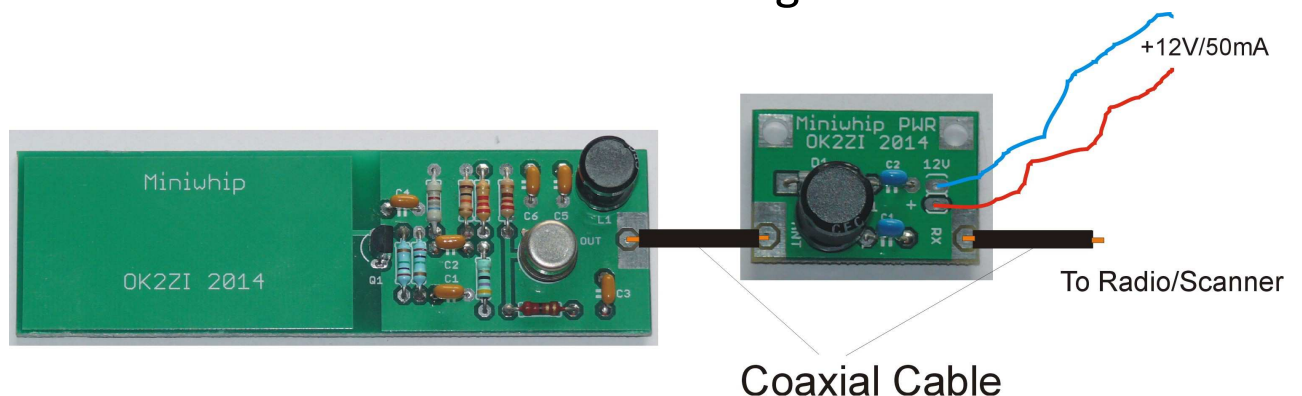


Bias-Tee schematic and finished PCB



Part	Value	Marking
C1-C2	100n	104
L1	470uH	
D1	1N4007	1N4007

How to connect all together



Coaxial Cable

Do not forget to solder the shield of the coaxial cable to the both boards!

And finally... the useful reading:

http://www.chirio.com/mini_whip_e.htm

http://www.ok1cjb.cz/index.php?option=com_content&view=article&id=888:4-430&catid=1:anteny-kv&Itemid=10

<http://dl1dbc.net/SAQ/Mwhip/pa0rdt-Mini-Whip.pdf>

<http://yu1lm.qrpradio.com/pa0rdt%20whip.pdf>

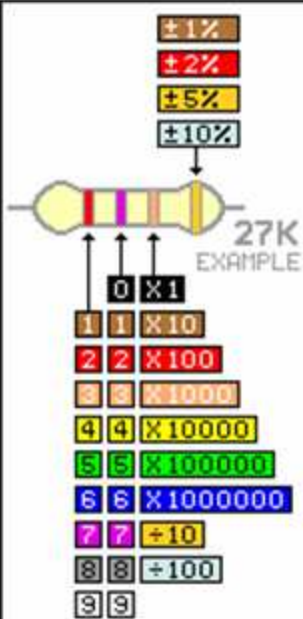
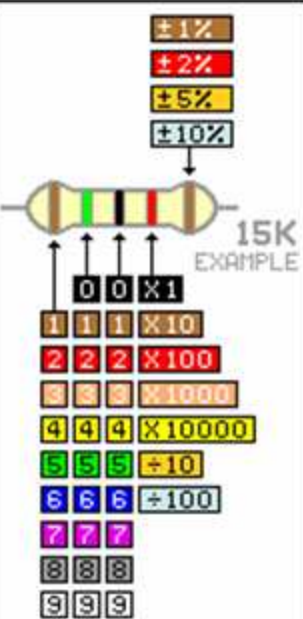
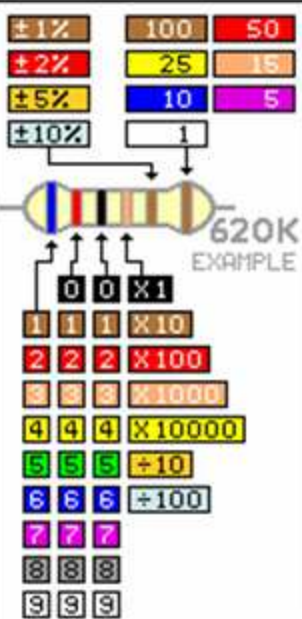
<http://g8jnj.webs.com/activeantennas.htm>

http://www.dl4zao.de/downloads/Miniwhip_reloaded.pdf

This document can be dowloaded from:

<http://www.ok2zi.cz/whipkit.pdf>

Resistor color code identification

 0 1 2 3 4 5 6 7 8 9 0 Black 1 Brown 2 Red 3 Orange 4 Yellow 5 Green 6 Blue 7 Purple 8 Grey 9 White ±1% Brown ±2% Red ±5% Gold ±10% Silver	 ±1% ±2% ±5% ±10% 27K EXAMPLE 0 x 1 11 x 10 22 x 100 33 x 1000 44 x 10000 55 x 100000 66 x 1000000 77 x 10 88 x 100 99	 ±1% ±2% ±5% ±10% 15K EXAMPLE 00 x 1 111 x 10 222 x 100 333 x 1000 444 x 10000 555 x 10 666 x 100 777 888 999	 ±1% ±2% ±5% ±10% 620K EXAMPLE 00 x 1 111 x 10 222 x 100 333 x 1000 444 x 10000 555 x 10 666 x 100 777 888 999 100 25 15 10 5
Color Codes	4 Band Resistors	5 Band Resistors	6 Band Resistors