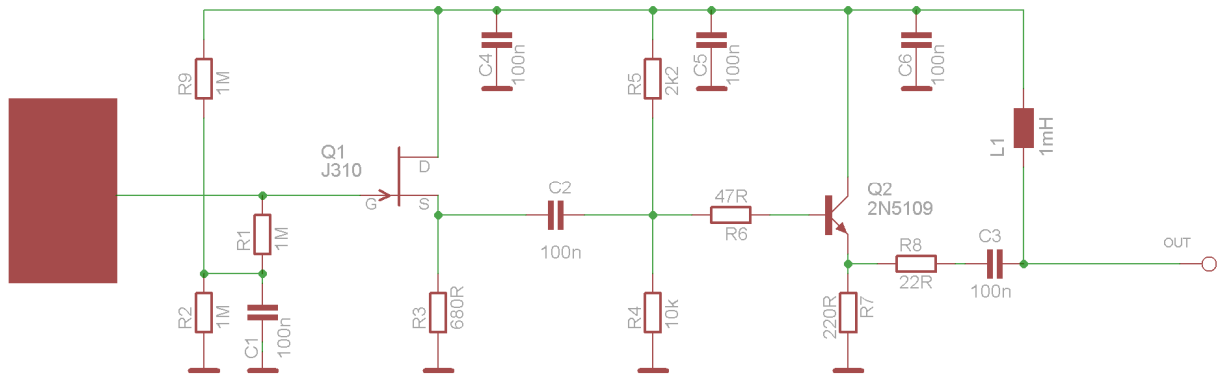
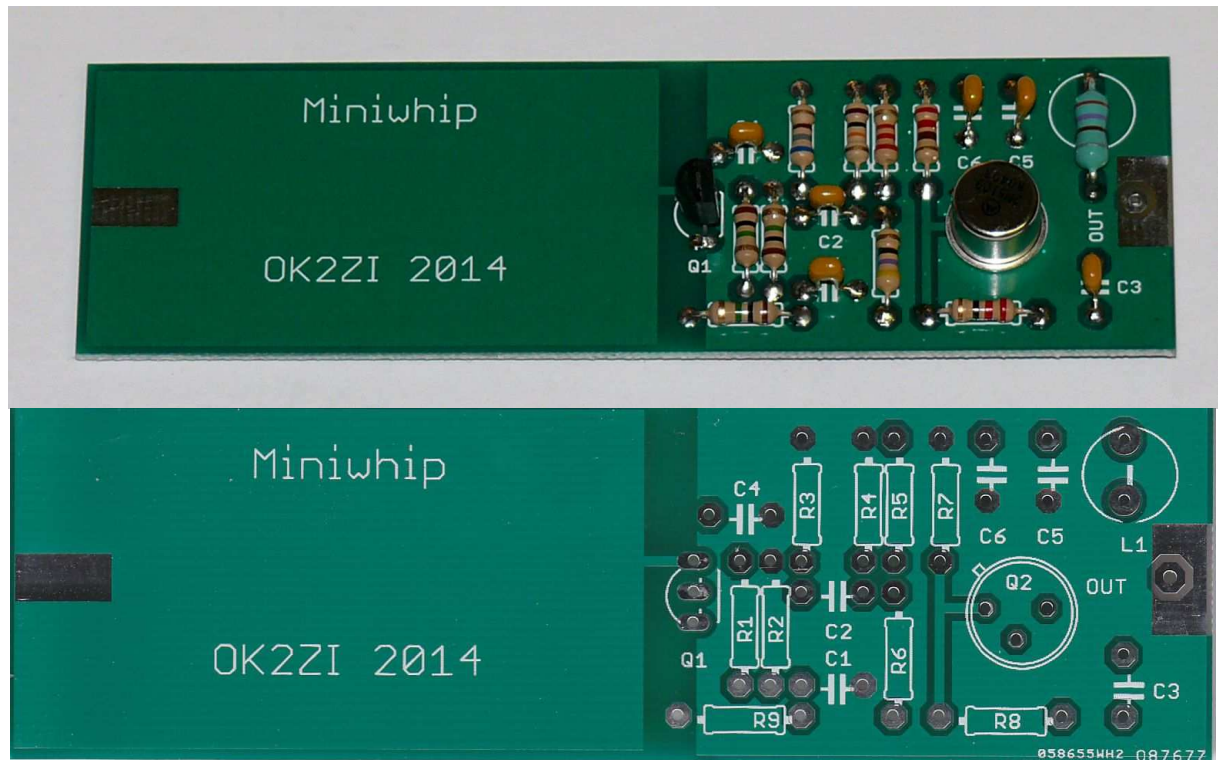


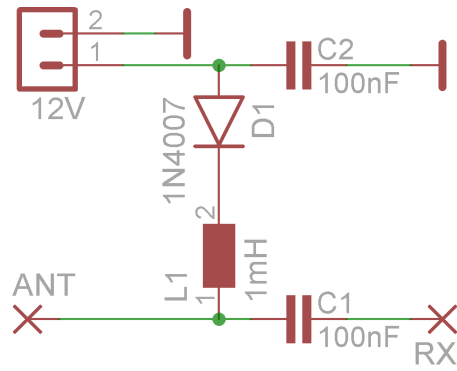
MINIWHIP ACTIVE ANTENNA DIY KIT



Antenna schematic and finished PCB



Part	Value	Marking
C1-C6	100n	104
L1	470uH	looks like green rezistor
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

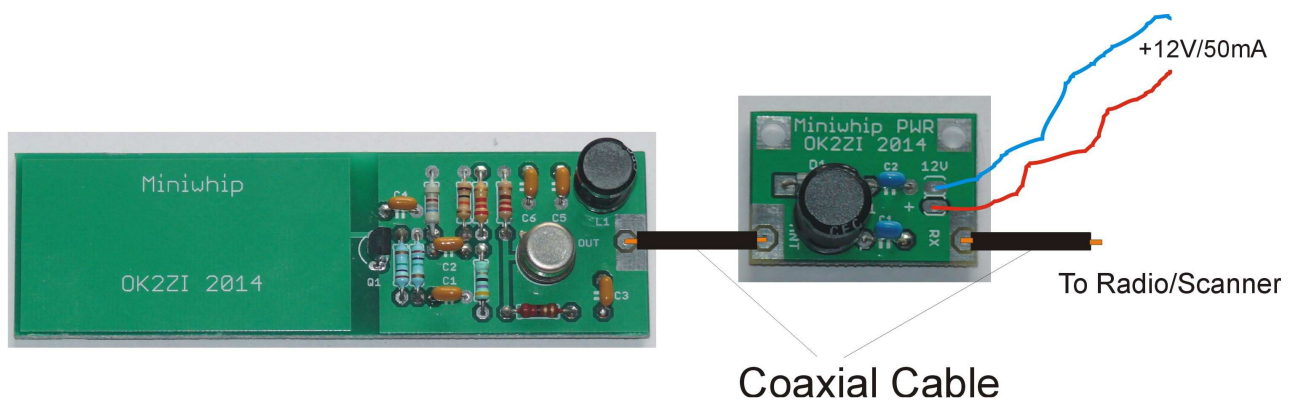


Bias-Tee schematic and finished PCB



Part	Value	Marking
C1-C2	100n	104
L1	470uH ... 10mH	/in the KIT can be the different value or package/
D1	1N4007	1N4007

How to connect all together



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://ok2zi.nagano.cz/whipkit.pdf>

Resistor color code identification

<p>0 1 2 3 4 5 6 7 8 9</p> <p>0 Black</p> <p>1 Brown</p> <p>2 Red</p> <p>3 Orange</p> <p>4 Yellow</p> <p>5 Green</p> <p>6 Blue</p> <p>7 Purple</p> <p>8 Grey</p> <p>9 White</p> <p>±1% Brown</p> <p>±2% Red</p> <p>±5% Gold</p> <p>±10% Silver</p>	<p>±1%</p> <p>±2%</p> <p>±5%</p> <p>±10%</p> <p>27K EXAMPLE</p> <p>0 X1</p> <p>1 1 X10</p> <p>2 2 X100</p> <p>3 3 X1000</p> <p>4 4 X10000</p> <p>5 5 X100000</p> <p>6 6 X1000000</p> <p>7 7 ±10</p> <p>8 8 ±100</p> <p>9 9</p>	<p>±1%</p> <p>±2%</p> <p>±5%</p> <p>±10%</p> <p>15K EXAMPLE</p> <p>0 0 X1</p> <p>1 1 1 X10</p> <p>2 2 2 X100</p> <p>3 3 3 X1000</p> <p>4 4 4 X10000</p> <p>5 5 5 ±10</p> <p>6 6 6 ±100</p> <p>7 7 7</p> <p>8 8 8</p> <p>9 9 9</p>	<p>±1%</p> <p>±2%</p> <p>±5%</p> <p>±10%</p> <p>100 50</p> <p>25 15</p> <p>10 5</p> <p>1</p> <p>620K EXAMPLE</p> <p>0 0 X1</p> <p>1 1 1 X10</p> <p>2 2 2 X100</p> <p>3 3 3 X1000</p> <p>4 4 4 X10000</p> <p>5 5 5 ±10</p> <p>6 6 6 ±100</p> <p>7 7 7</p> <p>8 8 8</p> <p>9 9 9</p>
<p>Color Codes</p>	<p>4 Band Resistors</p>	<p>5 Band Resistors</p>	<p>6 Band Resistors</p>