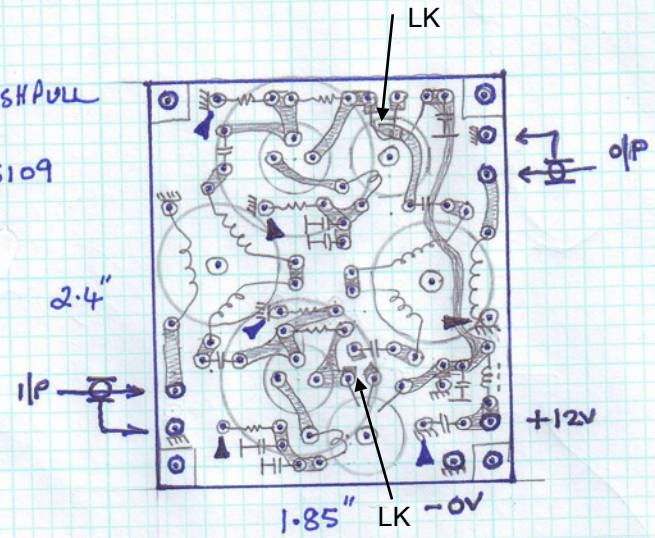
WIDEBAND PUSH PULL AMPLIFIER (2 x 2N5109) 03/02/2013

1. WIDEBAND PUSHPULL RF AMPLIFIER USING 2x2N5109

03/02/2013

2 x FT37-43 & 2 x FT50-43

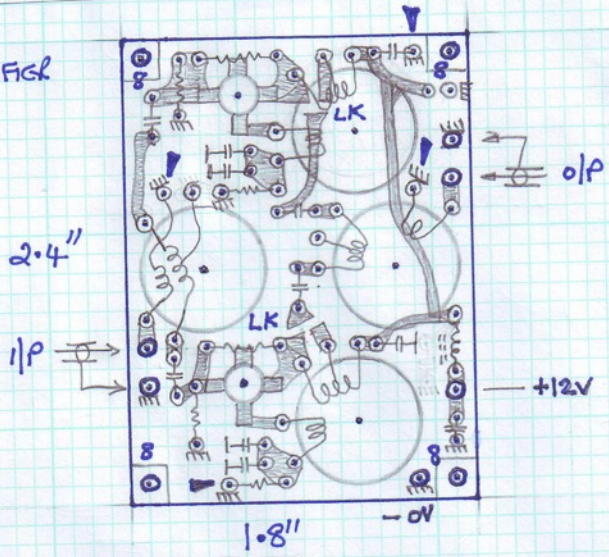


Board dimensions are 2.10 inches x 1.85 inches or 54mm x 47mm (rounded up).

Check the dimensions of the printed image and change the printing scale if required.

2. WIDE BAND R.F. AMPLIFIER USING 2x MRF586 & 4 x FT50-43

07-02-2013



Board dimensions are 2.40 inches x 1.80 inches or 61mm x 46mm (rounded up).

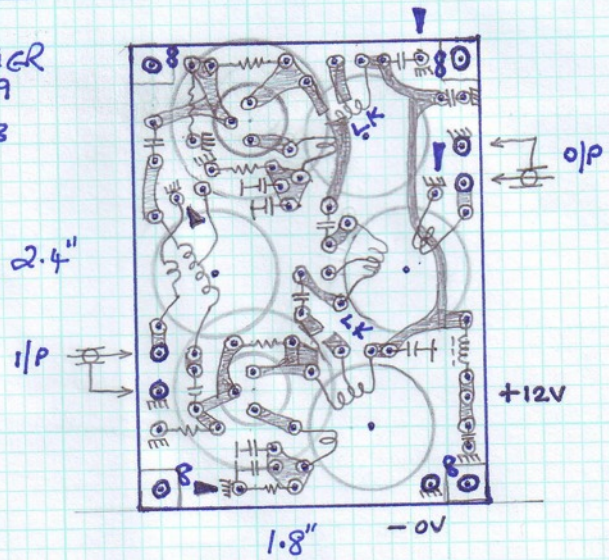
Check the dimensions of the printed image and change the printing scale if required.

The two emitters of each device may be joined together with a thin shim of copper behind each device.

Users should check the device dissipation.

3. WIDEBAND AMPLIFIER USING 2x 2N5109 AND 4 x FT50-43

07-02-2013



Board dimensions are 2.40 inches x 1.80 inches or 61mm x 46mm (rounded up).

Check the dimensions of the printed image and change the printing scale if required.

Notes:

See the PCB symbol document for an explanation of all symbols on this diagram.

Board material is 1/16 inch thick double sided copper clad fibreglass for all three layouts.

Each view is the solder side and all areas containing points marked as ground connections should be infilled with ground copper and connected through to the top copper groundplane.

The top copper is a continuous groundplane with small gaps around non-ground component leads.

Link pads (LK) have been included between the two collectors and the capacitors connected to the output transformer to permit some ongoing design investigations into optimising the collector load impedances. Use two wire links to make the appropriate connections on the solder side of the PC board.