

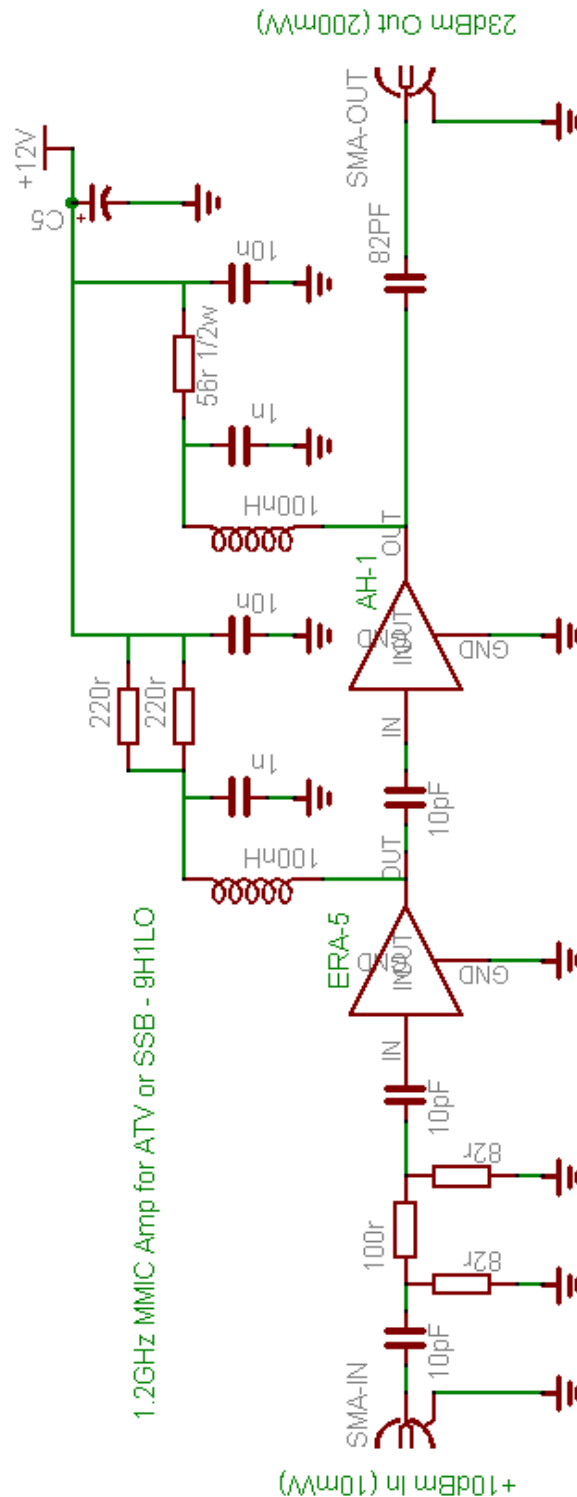
1.2GHz Low power output amplifier by 9H1LO.

Input power: -10dBm (100 μ W)

Output power: 23dBm (200mW)

This high gain amplifier will provide 23dBm output across the 23cm band. It is designed to be driven directly from a VCO or mixer stage and will drive a Mitsubishi RA18H1213G to full output power. An 10dB input attenuator can be added to allow for 0dBm input.

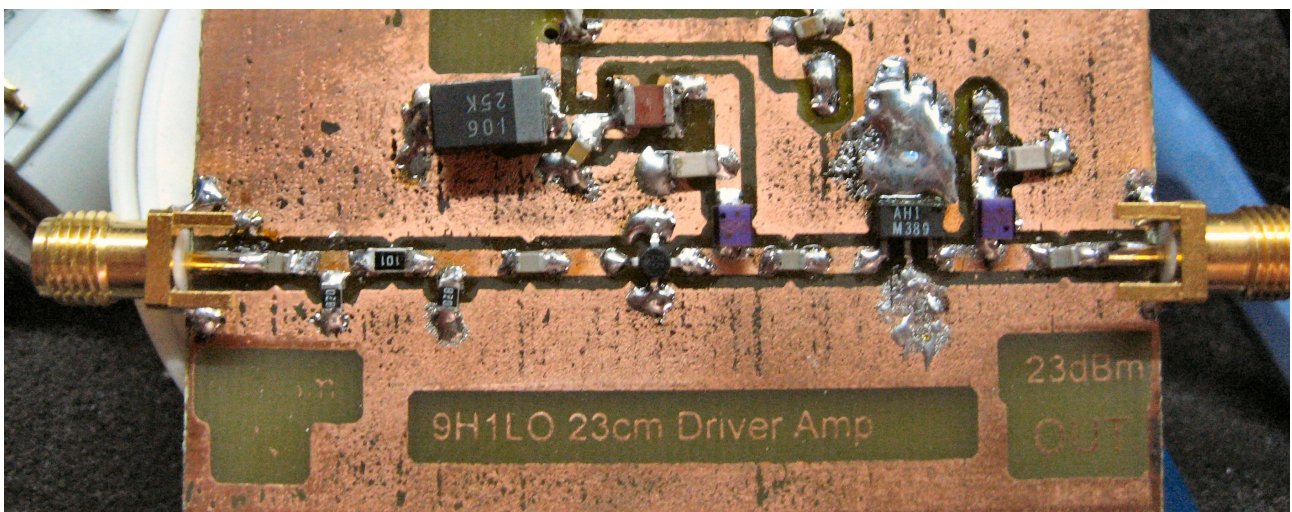
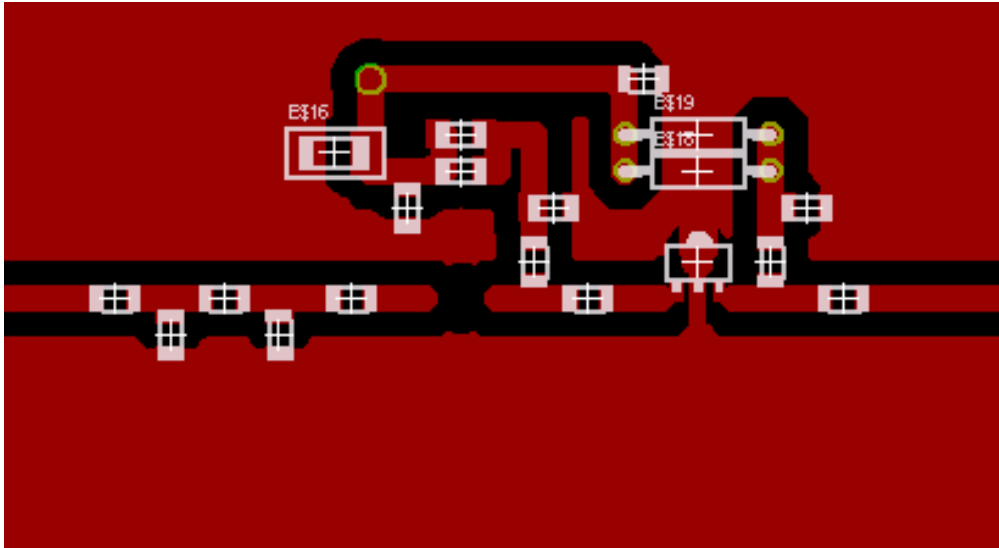
It is constructed on standard double sided FR-4 board and supply is 12v.



The driver stage is a Mini Circuits ERA-5 MMIC which provides about 20dBG at 1.2GHz. The main amplifier is a WJ AH-1 MMIC with 13dBG and a high P1 of 23dBm.

The components apart from the 56ohm bias resistor, are all mounted on the top side of the board.

The bottom side is left as ground. Input and output connectors are SMA type.



All components and PCB for this project are available cheaply from www.9h1lo.net



PCB Layout - Print this page as is to scale on A4