



bft = bifilar turns

Broadband transformer turns not critical
 All .1 are .1uF and can be anything from .01uF to .1uF
 Most application will have VCC=12V and tie BIAS and VCC together
 Separating BIAS and VCC allows for shaped keying in an RF transmit chain.
 Key issue is to bias NPN for at least 10mA to get high enough gm so that
 the circuit actually works as a feedback amp
 Transistor type not critical.
 Try to use ft of 300 MHz or higher.
 Good transistor choices are 2N3904 2N2222A 2N5109 2N3866
 MP5H10 is good NPN as long as you remember to bend the leads
 properly (MP5H10 does not share 2N3904 standard BCE sequence)
 Parallel transistors in schematic are only for setting up the layout.
 Use just one transistor.

Module:MP5H10 Broad Band Feedback Amp 4 in parallel

Reference: Experimental Methods in Radio Frequency Design
 Chap 2.4

MOD_BB_AMP_H10x4.sch

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