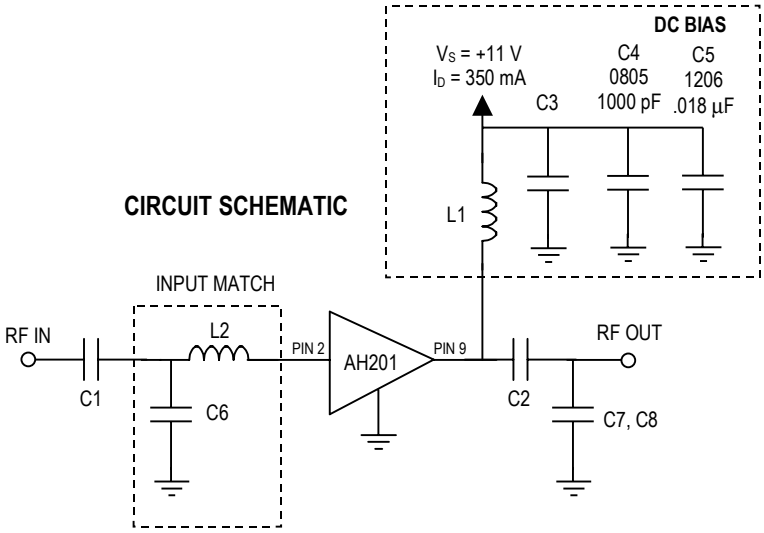
Application Circuits:

Frequency	MHz	900	1900	2140
S21 - Gain	dB	17	15	15
S11 - Input R.L.	dB	-20	-9.1	-9.2
S22 - Output R.L.	dB	-18	-3.8	-15
Noise Figure	dB	3.8	4.3	4.4
Output P1dB	dBm	+30.0	+30.0	+30.0
Output IP3	dBm	+47	+47	+47
IS-95 Channel Power @ -45dBc ACPR	dBm	+24	+23.6	+23.5

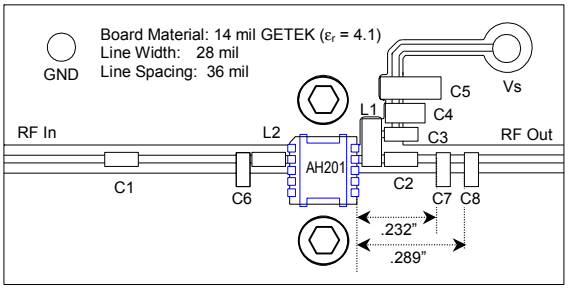
Typical parameters reflect performance in their respective application circuits.
The circuits are tuned for maximum power.

CIRCUIT SCHEMATIC

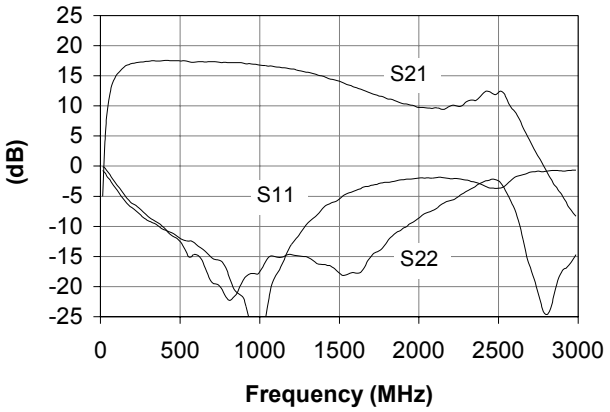


Component values

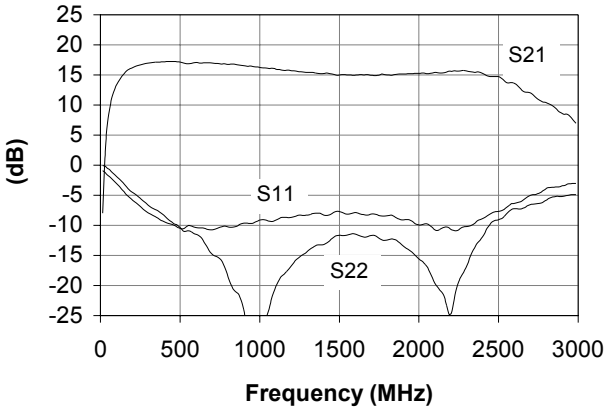
Frequency	900 MHz	1900 MHz	2140 MHz
C1, C2, C3	100 pF	56 pF	56 pF
C6	2.2 pF	1.0 pF	1.1 pF
C7	no load	no load	1.1 pF
C8	no load	1.0	no load
L1	33 nH	22 nH	18 nH
L2	3.3 nH	0 Ω	0 Ω



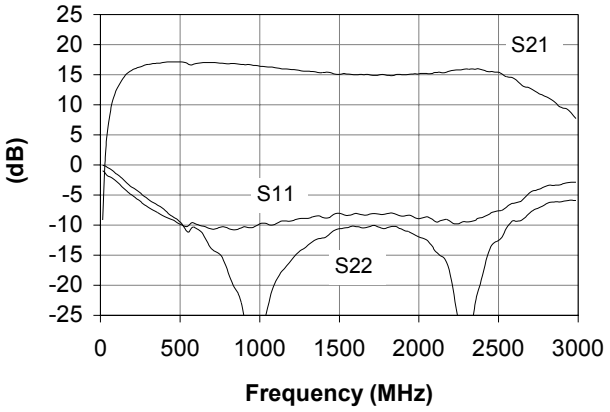
AH201-PCB900



AH201-PCB1900



AH201-PCB2140



Notes:

- Via holes are omitted for clarity.
- The microstrip line is weakly co-planer. Ground planes around it are not necessary for operation of the AH201.
- Adequate heat sinking is required for the device. Further mounting instructions are shown in the "Mounting Configuration".