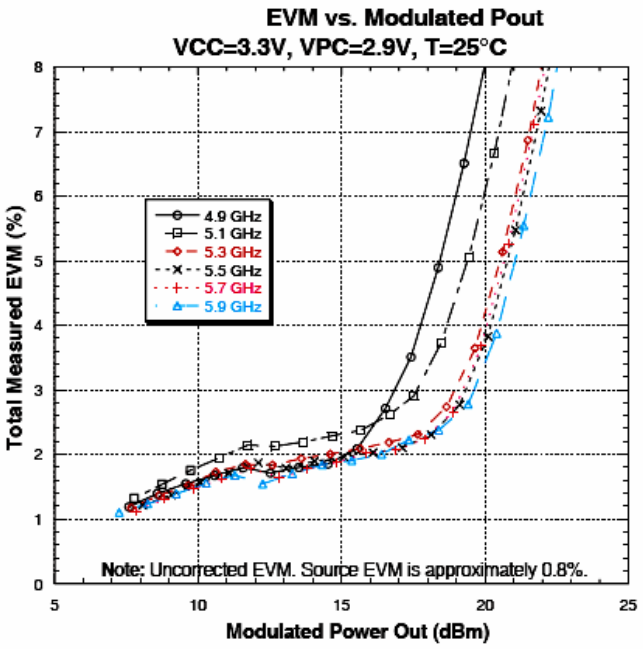
AMP-5800
SMALL 4.9-5.9 GHz RF LINEAR AMPLIFIER 500mW

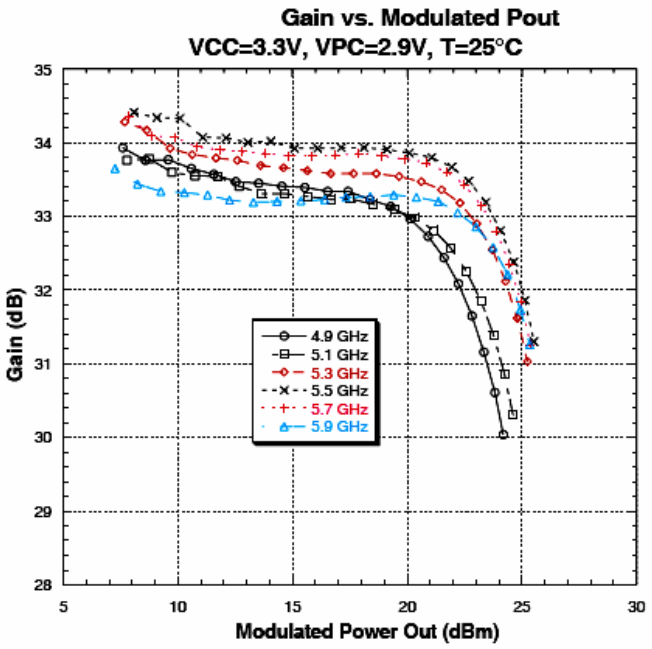
This is a smallest linear amplifier for 4.9 GHz- 5.9 GHz band. This small amplifier requires 1 mW input RF Power for the maximum output power of 500 mW. It is excellent for security applications or small airplane models. It works at 3 V -5 V with a current consumption of 550 mA. Dimensions: 25 mm X 19 mm

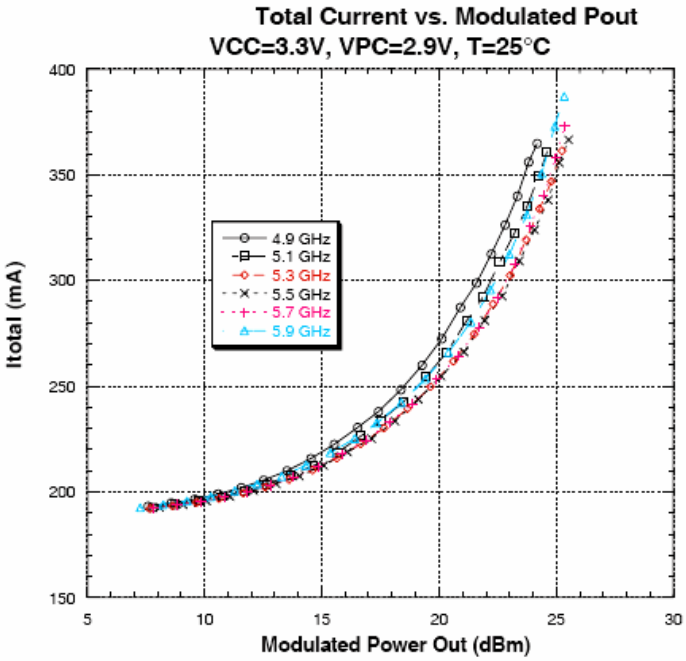
Features

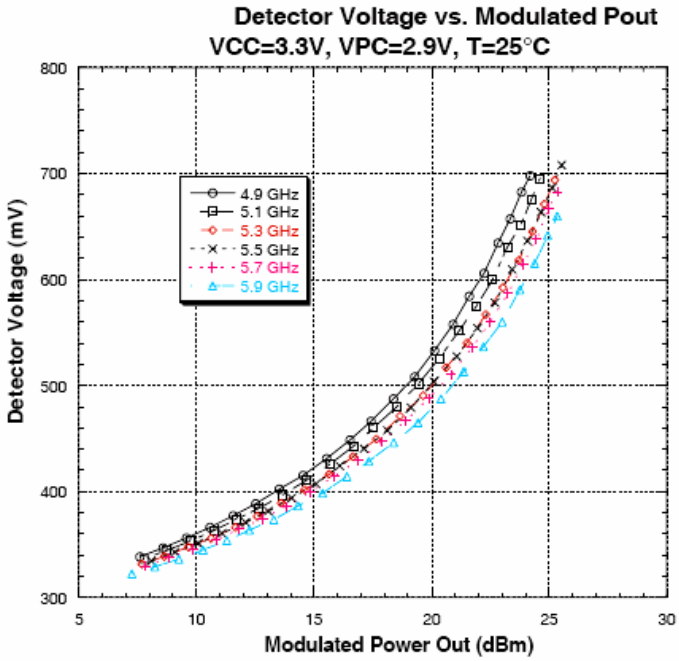
- Full 4.9 to 5.9 GHz operation
- 34 dB small signal gain
- 230 mA total current at 18 dBm modulated power out
- 2.3% EVM at 18 dBm modulated power out
- 3.3 V collector supply voltage
- Integrated power detector with 20 dB dynamic range
- Lead-free 5 x 5 x 1.5 mm leadless package
- Internally matched to 50 and DC blocked RF input/output
- Internal DC bias de-coupling
- Optimized for use in 802.11a applications

Performance Data
802.11a OFDM Modulation
(176 ms burst time, 100 ms idle time) 54 Mbps Data Rate, 16.7 MHz Bandwidth

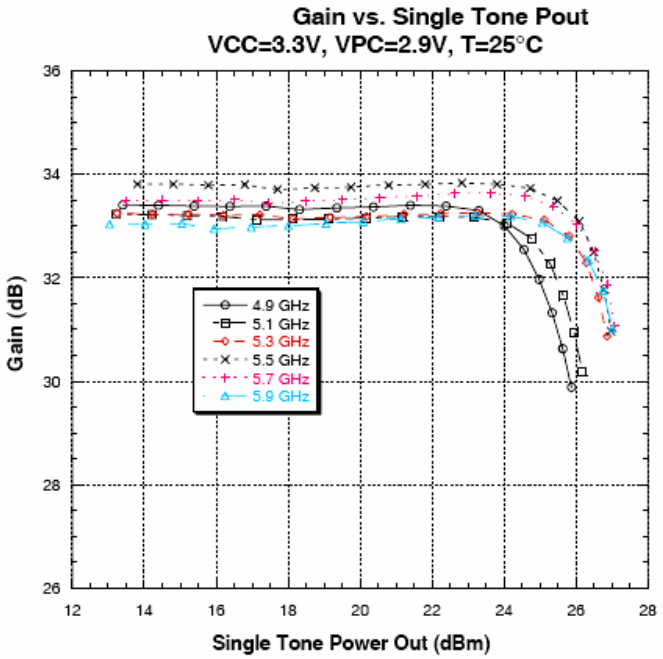


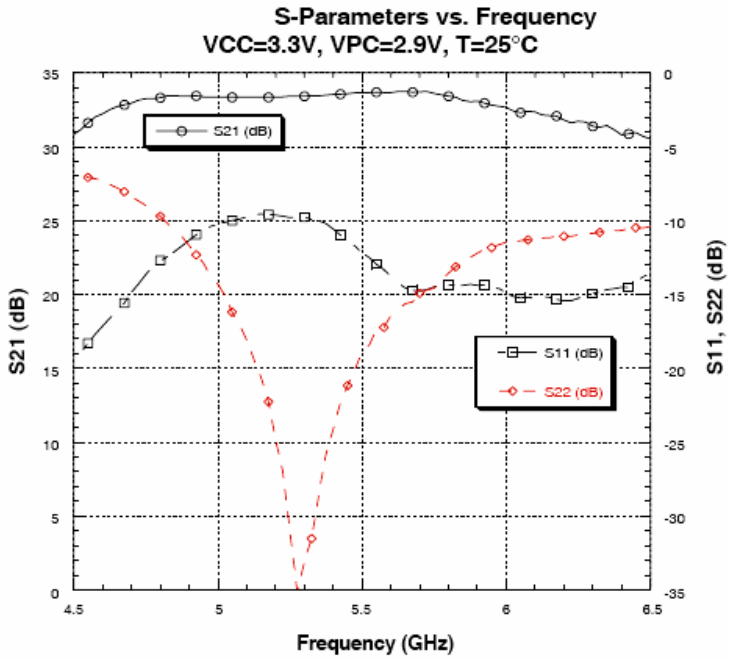


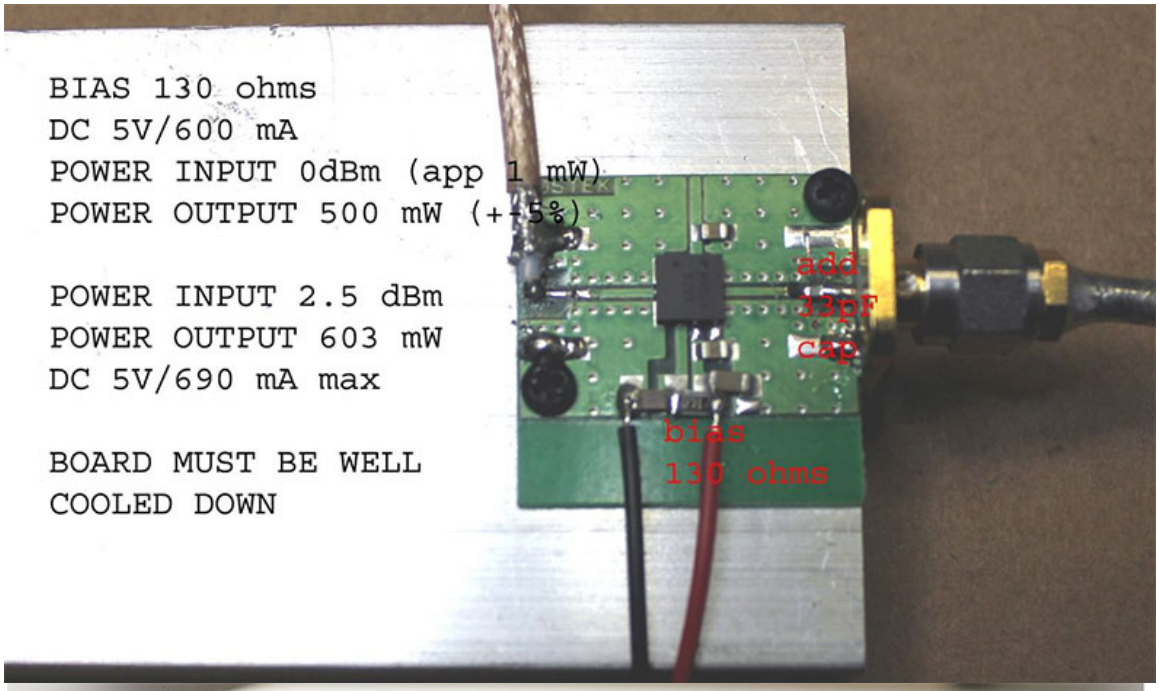


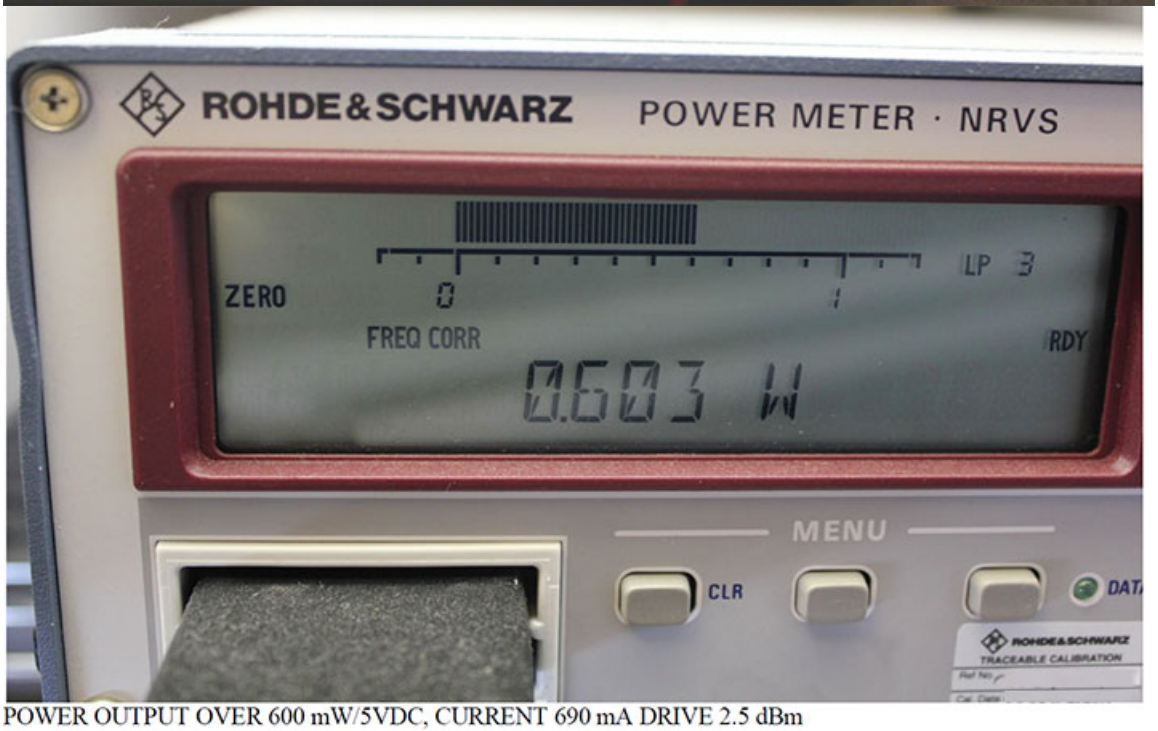


Performance Data
Single Tone

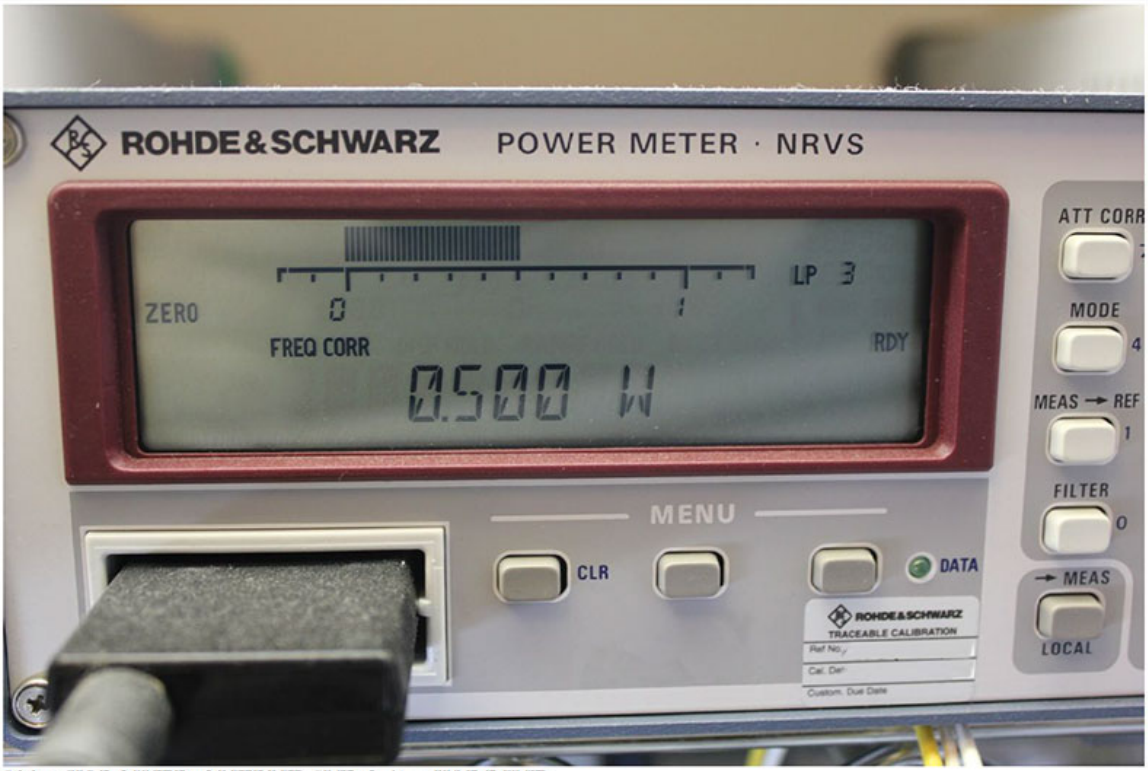








POWER OUTPUT OVER 600 mW/5VDC, CURRENT 690 mA DRIVE 2.5 dBm



500 mW POWER OUTPUT 5VDC /1 mW DRIVE