

## Application Note for RFS1006 Evaluation Board

### Power Sequencing

The RFS1006 power amplifier is a GaAs MESFET PA and requires both a positive (drain) and negative (gate) voltage. Refer to the board layout diagram indicating voltage, ground and RF connectors for proper connection. Proper power up and power down sequencing must be followed to avoid severe damage to the part.

#### Power Up

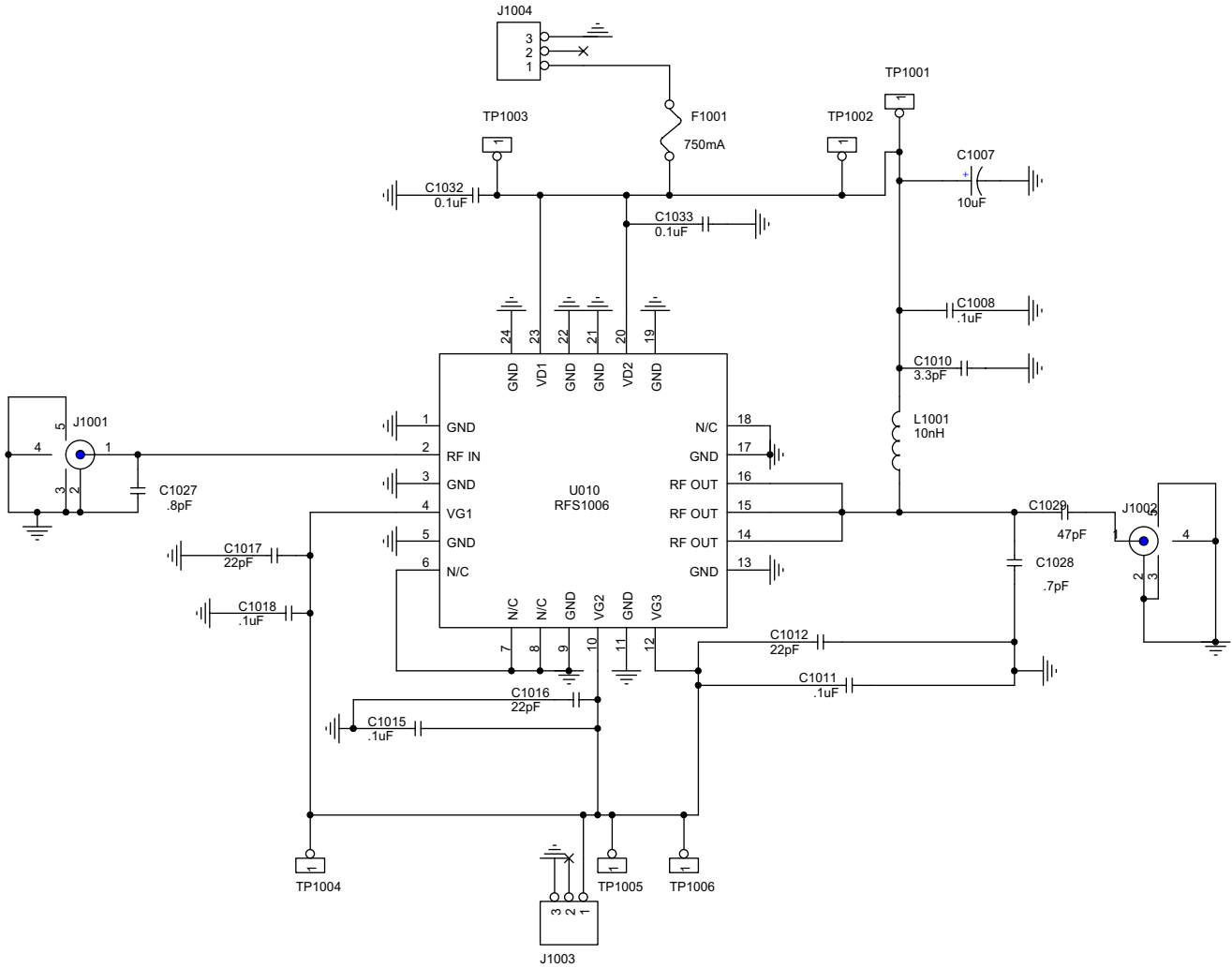
- 1) With the power supply output turned off, connect the DUT.
- 2) Apply -1.1 Vdc to Vg.
- 3) Apply +7.0 Vdc to Vd.
- 4) Apply RF signal to the power amplifier.

#### Power Down

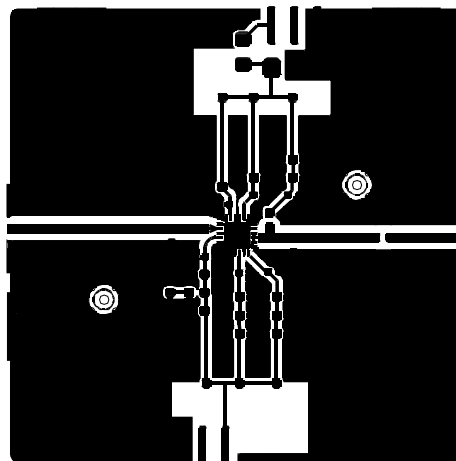
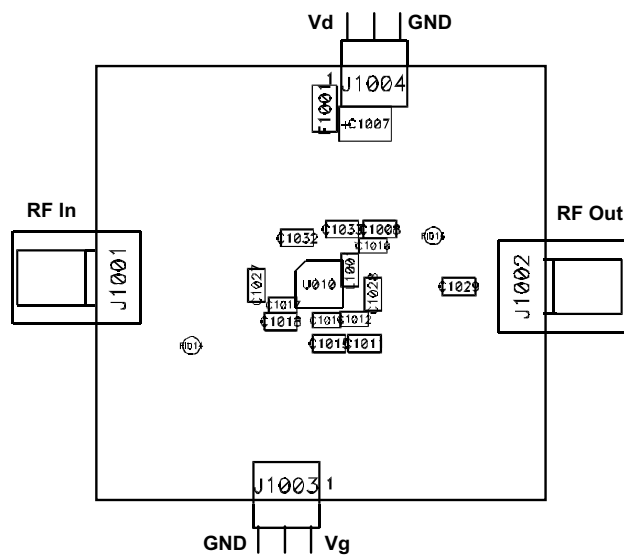
- 1) Remove RF signal to the power amplifier.
- 2) Remove +Vd.
- 3) Remove -Vg.
- 4) Disconnect the DUT.



# Evaluation Board Schematic



Evaluation Board Layout  
2.0" x 2.0"





**ANADIGICS, Inc.**

141 Mount Bethel Road  
Warren, New Jersey 07059, U.S.A.  
Tel: +1(908)668-5000  
Fax: +1(908)668-5132

URL: <http://www.anadigics.com>  
E-mail: [Mktg@anadigics.com](mailto:Mktg@anadigics.com)

**IMPORTANT NOTICE**

ANADIGICS, Inc. reserves the right to make changes to its products or to discontinue any product at any time without notice. The product specifications contained in Advanced Product Information sheets and Preliminary Data Sheets are subject to change prior to a product's formal introduction. Information in Data Sheets have been carefully checked and are assumed to be reliable; however, ANADIGICS assumes no responsibilities for inaccuracies. ANADIGICS strongly urges customers to verify that the information they are using is current before placing orders.

**WARNING**

ANADIGICS products are not intended for use in life support appliances, devices or systems. Use of an ANADIGICS product in any such application without written consent is prohibited.