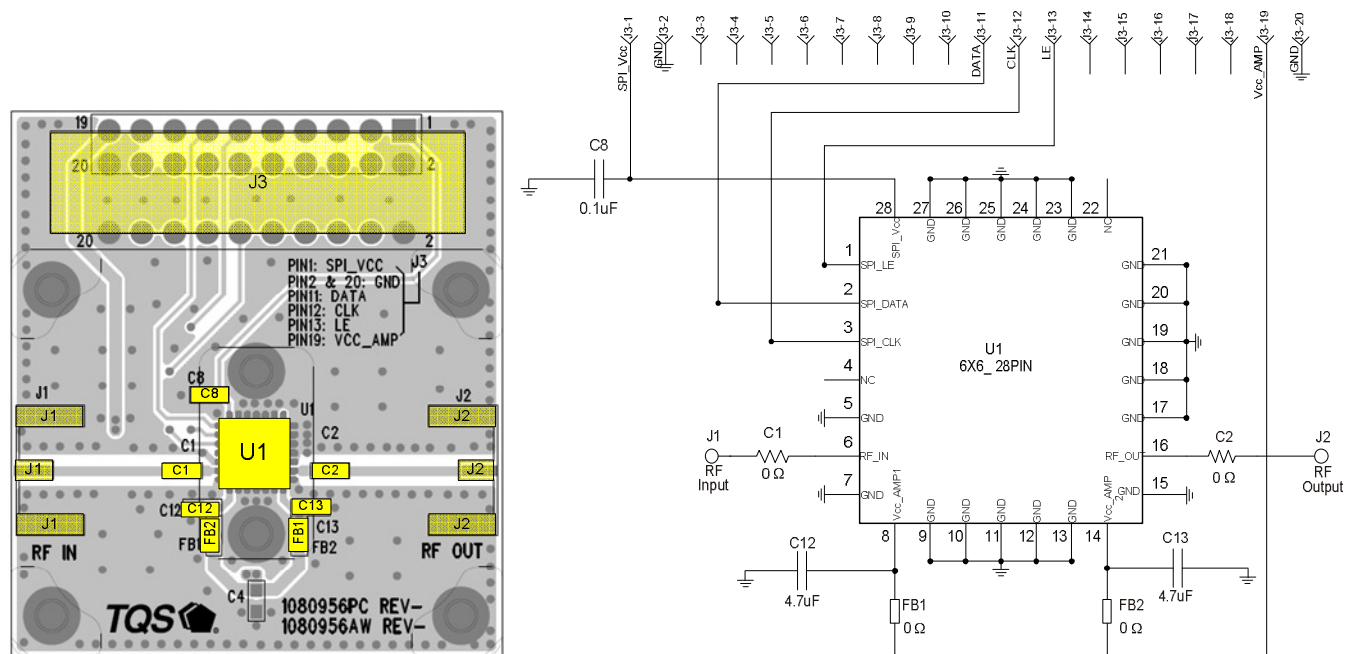


# TQM829007

0.6-1.0GHz 1/4W Digital Variable Gain Amplifier



## Application Circuit (TQM829007-PCB)



### Notes:

1. For PCB Board Layout, see page 9 for more information.
2. All Components are of 0603 size unless stated otherwise.
3. For SPI Timing Diagram, see page 6.
4. 0  $\Omega$  jumpers may be replaced with copper traces in the target application layout.
5. Different ground pins are used for SPI (digital) and analog supply voltages.
6. The primary RF microstrip characteristic line impedance is 50  $\Omega$ .
7. The single power supply is used to provide supply voltage to AMP1 and AMP2.

## Bill of Material: TQM829007-PCB

Reference Desg.	Value	Description	Manufacturer	Part Number
U1		0.6 – 1.0 GHz 1/4 W DVGA	TriQuint	TQM829007
C8	0.1 uF	Cap, Chip, 0603, 16V, X7R, 10%	various	
C12, C13	4.7 uF	Cap, Chip, 0603, 6.3V, X5R, 20%	various	
C1, C2, FB1, FB2	0 $\Omega$	Res, Chip, 0603, 1/16W, 5%	various	
C4	Do Not Place			