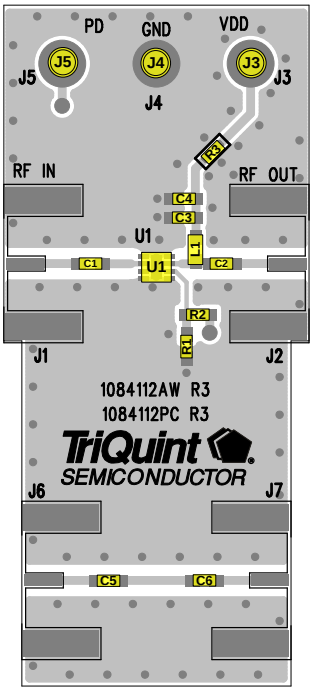
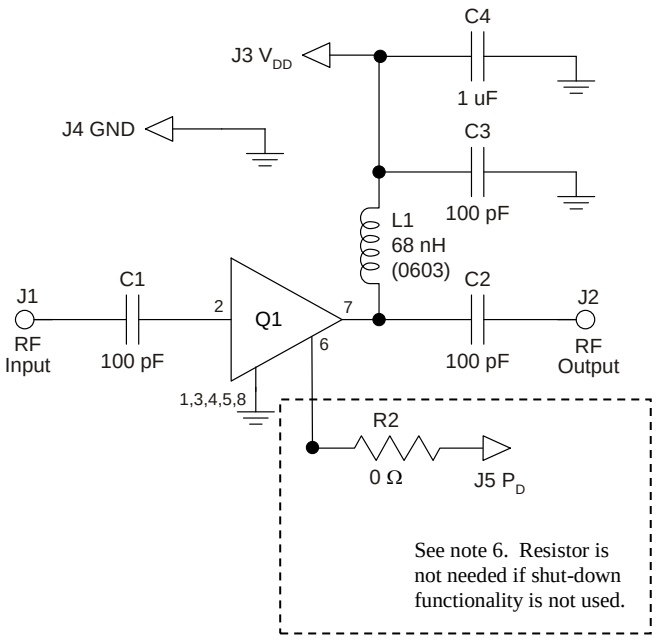
TQL9047-PCB Evaluation Board





Notes:

1. See Evaluation Board PCB Information section for material and stack-up.
2. R3 (0 Ω jumper) is not shown on the schematic and may be replaced with copper trace in the target application layout.
3. All components are of 0402 size unless stated on the schematic.
4. C1, C2, and C3 are non-critical values. The reactive impedance should be as low as possible at the frequency of operation for optimal performance.
5. The L1 value is non-critical and needs to provide high reactive impedance at the frequency of operation.
6. R2 is optional and does not need to be loaded if the shut-down functionality is not needed; i.e. FDD applications. If R2 is not loaded, the LNA will operate in its standard “ON” state.
7. A through line is included on the evaluation board to de-embed the board losses.

Bill of Material – TQL9047-PCB

Reference Des.	Value	Description	Manuf.	Part Number
N/A	N/A	Printed Circuit Board	TriQuint	N/A
U1	N/A	High Linearity Gain Block	TriQuint	TQL9047
R1	N/A	Do not load	N/A	N/A
R2	0 Ω	Resistor, Chip, 0402, 5%, 1/16W	various	various
R3	0 Ω	Resistor, Chip, 0402, 5%, 1/16W	various	various
L1	68 nH	Inductor, 0603, 5%, Ceramic	various	various
C4	1.0 uF	Cap., Chip, 0402, 10%, 10V, X5R	various	various
C1, C2, C3, C5, C6	100 pF	Cap., Chip, 0402, 5%, 50V, NPO/COG	various	various