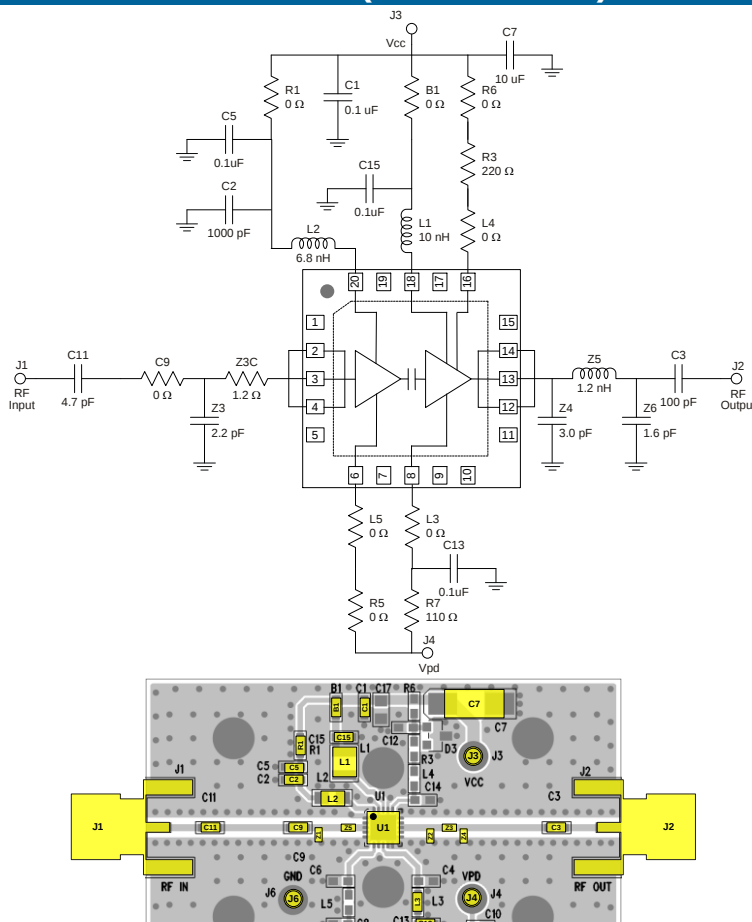


TQP9111-PCB2600 Evaluation Board (2.3 – 2.7 GHz)



Bill of Material TQP9111-PCB2600

Ref Des	Value	Description	Manuf.	Part Number
U1		TQP9111	TriQuint	TQP9111
C1, C5, C13, C15	0.1 uF	CAP, 0603,10%, 50V, X7R	various	
C2	1000 pF	CAP, 0603, 5%, 50V, NPO	various	
C3	100 pF	CAP, 0603, 5%, 50V, NPO	various	
Z4	3.0 pF	CAP, 0402, +/-0.25PF. 50V. NPO/COG	various	
Z3C	1.2 Ω	RES, 0402, 5PCT. 1/16W. CHIP.	various	
Z3	2.2 pF	CAP, 0402, +/- 0.1PF. 50V. NPO	various	
Z5	1.2 nH	IND, 0402, chip, +/-0.3 nH	various	
C7	10 uF	CAP, 6032, 20%, 50V, Tantalum	various	
Z6	1.6 pF	CAP, 0402, +/- 0.1PF. 50V. NPO/COG	various	
C11	4.7 pF	CAP, 0603, +/-0.1PF. 200V. NPO/COG	various	
R7	110 Ω	RES, 0603, 1PCT., 1/10W	various	
R3	220 Ω	RES, 0603, 1PCT., 1/16W	various	
B1, L3, L4, L5, R1, R5, C9, R6	0 Ω	RES, 0603, 5%, 1/16W, Chip	various	
L1	10 nH	IND, 1008, 5%, Ceramic	various	
L2	6.8 nH	IND, 0805, 5%, Ceramic	various	

Typical Performance TQP9111-PCB2600

Test conditions unless otherwise noted: $V_{CC} = +5\text{ V}$, $I_{CQ} = 545\text{ mA}$ (typ.), $V_{pd} = +5\text{ V}$, Temp. = $+25\text{ }^{\circ}\text{C}$

Parameter	Conditions	Typical Value			Units
Frequency		2300	2500	2700	MHz
Gain		28.8	29.2	28.8	dB
Input Return Loss		8	13	16	dB
Output Return Loss		9	10	9	dB
Output P1dB		+33.0	+32.8	+32.0	dBm
OIP3	$P_{out} = +14\text{ dBm/tone}$, $\Delta f = 1\text{ MHz}$	+45	+44.5	+44	dBm
Noise Figure		6.0	6.3	6.9	dB

Performance Plots TQP9111-PCB2600

Test conditions unless otherwise noted: $V_{CC} = +5\text{ V}$, $I_{CQ} = 545\text{ mA}$ (typ.), $V_{pd} = +5\text{ V}$, Temp. = $+25\text{ }^{\circ}\text{C}$

