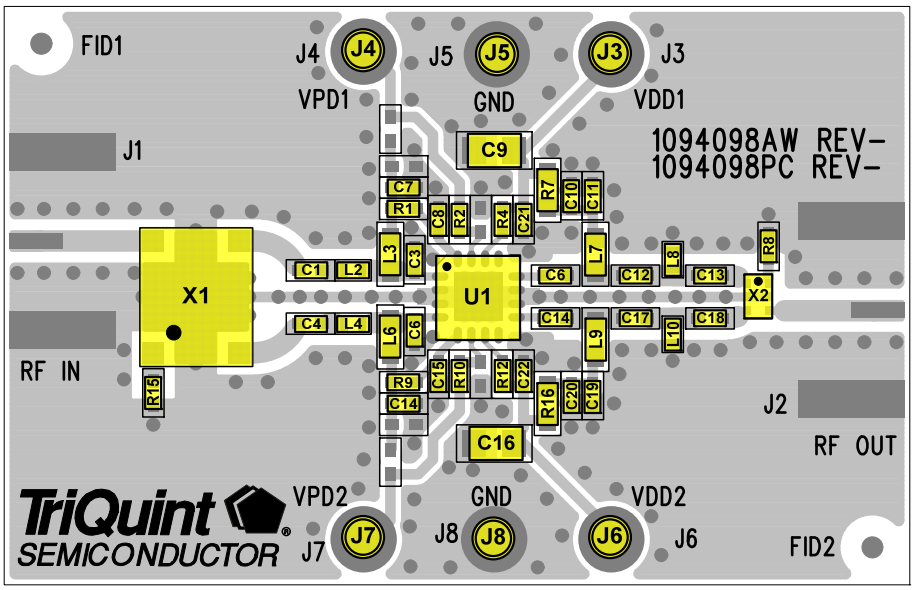
Application Circuit – TQP3M9040-PCB



See Evaluation Board PCB Information section for PCB material and stack-up.

Bill of Material – TQP3M9040-PCB

Reference Des.	Value	Description	Manuf.	Part Number
U1	n/a	TQP3M9040	TriQuint	TQP3M9040
X1	n/a	Hybrid Coupler	Anaren	X3C19P1-03S
X2	n/a	Hybrid Coupler	Anaren	C1720J5003A00
R1, R9	100 Ω	RES, 0402, +/-5%, 1/10W	Various	
R8, R15	51 Ω	RES, 0402, +/-5%, 1/10W	Various	
R6, R14	12 Ω	RES, 0402, +/-5%, 1/10W	Various	
R4, R12	2.7K Ω	RES, 0402, +/-5%, 1/10W	Various	
R7, R16	6.8 Ω	RES, 0603, +/-5%, 1/8W	Various	
R2, R10	0 Ω	RES, 0402, +/-5%, 1/10W	Various	
C1, C4	22 pF	CAP, 0402, +/-5%, 50V	Panasonic	ECJ-0EC1H220J
C3, C6	0.5 pF	CAP, 0402, +/-0.1pF, 25V	AVX	04023J0R5BBSTR
C7, C14	4.7 pF	CAP, 0402, +/-0.25pF, 25V	Panasonic	ECD-G0E4R7C
C8, C15, C21, C22, C11, C19	100 pF	CAP, 0402, +/-5%, 50V	Panasonic	ECJ-0EC1H101J
C9, C16	0.01 uF	CAP, 0805, +/-5%, 50V, X7R	Various	
C10, C20	1000 pF	CAP, 0402, +/-10%, 50V	Various	
C12, C13, C17, C18	1.5 pF	CAP, 0402, +/-0.05pF, 25V	AVX	04023J1R5ABSTR
L2, L4	1.2 nH	IND, 0402, +/-5%	Coilcraft	0402CS-1N2XJL
L3, L6, L7, L9	47 nH	IND, 0603, +/-5%, 600mA	Coilcraft	0603CS-47NXJL
L8, L10	3.3 nH	IND, 0402, +/-5%	Coilcraft	0402CS-3N3XJL

Notes:

1. R2 and R10 may be replaced with metal trace in target applications