

Vs (5V)
Vcc1 (PIN 16) Vcc2 (Pin 14) L2 (Pin 14) L2 (Pin 14) L2 (Pin 14) C3 L6 L1 C7 LC4 L8 L1 C8 L1 C9, C10 (PIN 3) (PIN 3) (PIN 1) (PIN 9,10,11) Vctl (5V)

The circuit board used in the final application should use RF circuit design techniques. Signal lines should have 50 ohm impedance while the package ground leads and exposed paddle should be connected directly to the ground plane similar to that shown. A sufficient number of via holes should be used to connect the top and bottom ground planes. The evaluation board should be mounted to an appropriate heat sink. The evaluation circuit board shown is available from Hittite upon request.

Item	Description	
J1 - J2	PCB Mount SMA RF Connector	
J3	2 mm DC Header	
C1 - C4	1,000 pF Capacitor, 0603 Pkg.	
C5 - C7	100 pF Capacitor, 0402 Pkg.	
C8	2.2 µF Tantalum Capacitor	
C9 - C10	0.5 pF Capacitor, 0603 Pkg.	
C11	10 pF Capacitor, 0402 Pkg.	
L1 - L2	1.6 nH Inductor, 0603 Pkg.	
U1	HMC408LP3 / HMC408LP3E Amplifier	
PCB [2]	104629 Eval Board	

[1] Reference this number when ordering complete evaluation PCB

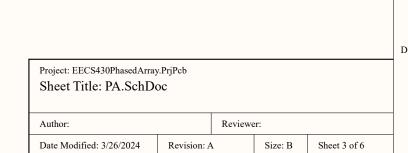
[2] Circuit Board Material: Rogers 4350

Note 1: C9, C10 should be located < 0.020" from pins 9, 10, & 11.

Note 2: Application circuit values shown are optimized for 5.7 - 5.9 GHz operation.

Contact our Applications Engineers for optimization of output match for other frequencies.

	TL1	TL2
Impedance	50 Ohm	50 Ohm
Length	0.200"	0.100"



2 3

