
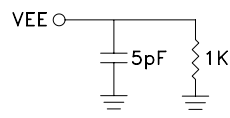
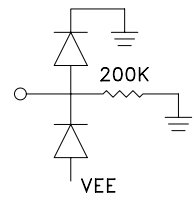


GaAs MMIC SP8T NON-REFLECTIVE SWITCH, DC - 8 GHz



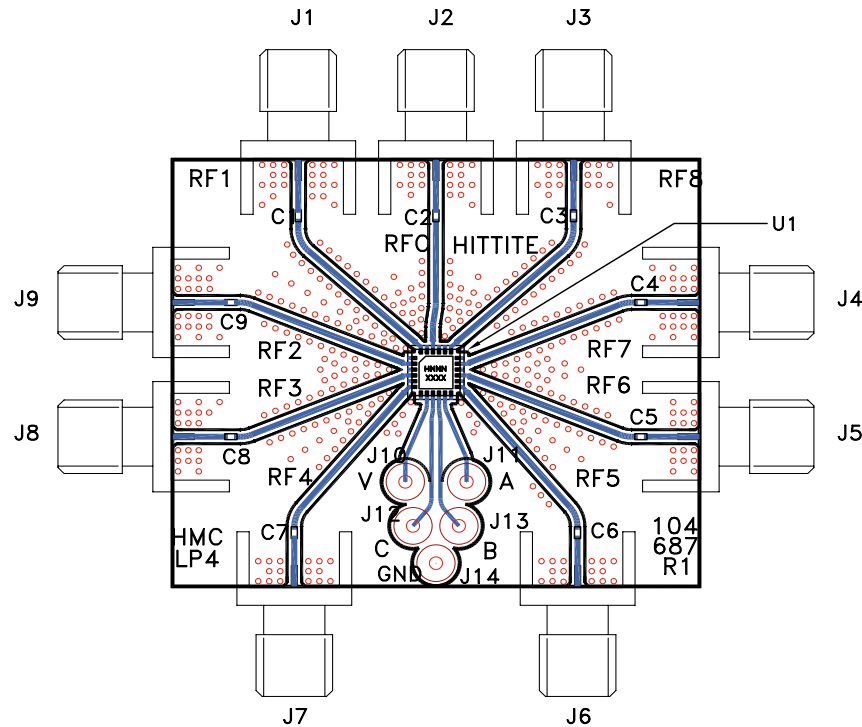
Pin Descriptions

Pin Number	Function	Description	Interface Schematic
1, 3, 5, 7, 12, 14, 16, 18, 21, 23	GND	Package bottom has exposed metal paddle that must also be connected to PCB RF ground.	
2, 4, 6, 13, 15, 17, 19, 22, 24	RF1 - RF8 & RFC	This pin is DC coupled and matched to 50 Ohm. Blocking capacitors are required if RF line potential is not equal to 0V.	
8	VEE	Supply Voltage = $-5V \pm 10\%$	
9	CTLC	See truth table and control voltage table.	
10	CTLB	See truth table and control voltage table.	
11	CTLA	See truth table and control voltage table.	
20	N/C	This pin should be connected to PCB RF ground to maximize isolation.	



GaAs MMIC SP8T NON-REFLECTIVE SWITCH, DC - 8 GHz

Evaluation PCB



List of Materials for Evaluation PCB 107780 [1]

Item	Description
J1 - J9	PCB Mount SMA RF Connector
J10 - J14	DC Pin
C1 - C9	100 pF Capacitor, 0402 Pkg.
U1	HMC322LP4 / HMC322LP4E SP8T Switch
PCB [2]	104687 Evaluation PCB 1.73"x1.46"

[1] Reference this number when ordering complete evaluation PCB

[2] Circuit Board Material: Rogers 4350

The circuit board used in the application should be generated with proper RF circuit design techniques. Signal lines at the RF port should have 50 ohm impedance and the package ground leads and backside ground slug should be connected directly to the ground plane similar to that shown above. The evaluation circuit board shown above is available from Hittite Microwave Corporation upon request.