



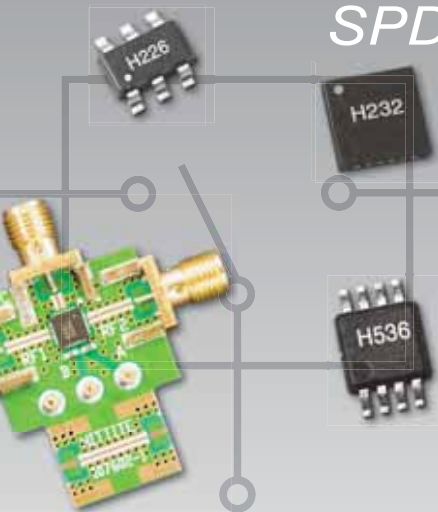
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# DESIGNER'S KIT

## SPDT Switches, DC - 12 GHz



This SPDT Switch Designer's Kit HMC-DK005 includes samples of 9 of Hittite's most popular single pole double throw GaAs MMIC switches. The table below summarizes the features of each of the SPDT products included in this kit. Also included are six fully assembled and tested evaluation boards, which enable the designer to test each of the enclosed samples (Notes 1 & 2).

In most cases, the lowest frequency of operation will be determined by the DC blocking capacitor on the evaluation board. The designer is encouraged to refer to the Application Circuit section of the product data sheet before applying power to any evaluation board. Data sheets for each of the enclosed samples are available from the enclosed CD, or online at [www.hittite.com](http://www.hittite.com).

Hittite's complete line of MMIC Switches are available in SPDT through SP8T, Transmit/Receive, Diversity, and Switch Matrix (4x2) configurations. The SPDT Switches represented in this kit are offered in industry standard SOT26, MS8(G), and LP4 leadless packages, and are targeted to Cellular/3G, Fixed Wireless, CATV, MMDS, WiMAX, WiBro, Microwave Radio and Test Equipment applications from DC to 12 GHz.

### HMC-DK005 – SPDT SWITCHES, DC - 12 GHz

Part Number	Frequency (GHz)	Function	Insertion Loss (dB)	Isolation (dB)	Input P1dB (dBm)	Control Input (Vdc)	Package	Quantity
HMC221E	DC - 3	SPDT, Reflective	0.4	28	30	0 / +3V	SOT26	5
HMC284MS8GE	DC - 3.5	SPDT, Hi Isolation	0.5	45	25	0 / +5V	MS8G	5
HMC349MS8GE	DC - 4	SPDT, Hi Isolation	0.9	57	31	0 / +5V	MS8G	5
HMC232LP4E	DC - 12	SPDT, Hi Isolation	1.5	55	27	0 / -5V	LP4	5
HMC226E	DC - 2	SPDT T/R	0.6	20	35	0 / +3V	SOT26	5
HMC595E	DC - 3	SPDT T/R 3 Watt	0.3	30	37	0 / +3 to +10V	SOT26	5
HMC574MS8E	DC - 3	SPDT T/R, 5 Watt	0.3	30	39	0 / +3 to +10V	MS8	5
HMC484MS8GE	DC - 3	SPDT T/R, 10 Watt	0.5	30	>40	0 / +3 to +10V	MS8G	5
HMC536MS8GE	DC - 6	SPDT T/R	0.5	27	37	0 / +3 to +5V	MS8G	5

Part Number	Description	Quantity
101675 – HMC221	Evaluation Board – SPDT Switch	1
107662 – HMC349MS8G	Evaluation Board – SPDT Switch	1
107723 – HMC232LP4	Evaluation Board – SPDT Switch	1
104124 – HMC574MS8	Evaluation Board – SPDT Switch	1
104124 – HMC484MS8G	Evaluation Board – SPDT Switch	1
105143 – HMC536MS8G	Evaluation Board – SPDT Switch	1

Note 1: Evaluation board p/n 101675-HMC221 can also be used to evaluate the HMC226 and the HMC595.

Note 2: Evaluation board p/n 105143-HMC536MS8G can also be used to evaluate the HMC284MS8G.