## SKYWORKS*

## DATA SHEET

## SKY13417-485LF: 0.1-3.0 GHz SP7T Antenna Switch

## Applications

- Any $2 \mathrm{G} / 3 \mathrm{G} / 4 \mathrm{G}$ antenna diversity or LTE (TDD/FDD) transmit/receive system for which GSM transmit is not required


## Features

- Broadband frequency range: 0.1 to 3.0 GHz
- Low insertion loss: 0.7 dB typical @ 2.7 GHz
- High isolation: >20 dB @ 2.7 GHz
- Integrated logic
- Internal $50 \Omega$ port to control diversity antenna impedance when device is not in use
- Small QFN (14-pin, $2.0 \times 2.0 \mathrm{~mm}$ ) package (MSL1, $260{ }^{\circ} \mathrm{C}$ per JEDEC J-STD-020)


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## Description

The SKY13417-485LF is a Single Pole, Seven-Throw (SP7T) switch with an internal $50 \Omega$ termination. The high linearity performance and low insertion loss achieved by the SKY13417485LF make it an ideal choice for main/diversity switching commonly used in LTE-based handsets, data cards, and tablets that use antenna diversity solutions.
The SKY13417-485LF is part of a scalable family of products that covers SP4T through SP8T switches that allow up to eight bands of WCDMA/LTE.

- SKY13414-485LF SP4T Antenna Switch (Data Sheet \#201689)
- SKY13415-485LF SP5T Antenna Switch (Data Sheet \#201704)
- SKY13416-485LF SP6T Antenna Switch (Data Sheet \#201679)
- SKY13417-485LF SP7T Antenna Switch (this Data Sheet)
- SKY13418-485LF SP8T Antenna Switch (Data Sheet \#201712) The symmetric port designs provide flexibility in signal routing for both receive diversity and higher power TD-SCDMA/TDD-LTE, WCDMA/FDD, and LTE transmit/receive applications.


Figure 1. SKY13417-485LF Block Diagram

Switching is controlled by three CMOS/TTL-compatible control voltage inputs (V1, V2, and V3). Depending on the logic voltage level applied to the control pins, the ANT pin is connected to one of seven switched RF input/output (//0) ports (RF1 to RF7) using a low insertion loss path, while the paths between the ANT pin and the other RF pins are in a high isolation state. The antenna path can also be closed on a $50 \Omega$ load when it needs to be terminated. The $50 \Omega$ load is internally grounded. No external blocking capacitors are required on the RF paths unless Voc is applied externally.
The SKY13417-485LF is manufactured in a compact, 14-pin 2.0 x 2.0 mm , Quad Flat No-Lead (QFN) package.

A functional block diagram is shown in Figure 1. The pin configuration and package are shown in Figure 2. Signal pin assignments and functional pin descriptions are provided in Table 1.


Figure 2. SKY13417-485LF Pinout - 14-Pin QFN (Top View)

Table 1. SKY13417-485LF Signal Descriptions

| Pin \# | Name | Description | Pin \# | Name | Description |
| :---: | :--- | :--- | :---: | :--- | :--- |
| 1 | RF5 | RF I/O path 5 | 8 | N/C | Not connected |
| 2 | RF3 | RF I/O path 3 | 9 | RF2 | RF I/O path 2 |
| 3 | RF1 | RF I/O path 1 | 10 | RF4 | RF I/O path 4 |
| 4 | VDD | DC power supply | 11 | RF6 | RF I/O path 6 |
| 5 | V3 | DC control voltage 3 | 12 | N/C | Not connected |
| 6 | V2 | DC control voltage 2 | 13 | ANT | Antenna port |
| 7 | V1 | DC control voltage 1 | 14 | RF7 | RF I/O path 7 |

Note: Bottom ground paddles must be connected to ground.

Table 2. SKY13417-485LF Absolute Maximum Ratings (Note 1)

| Parameter | Symbol | Minimum | Maximum | Units |
| :--- | :--- | :---: | :---: | :---: |
| Supply voltage | Vod | 2.5 | 5.0 | V |
| Control voltage (V1, V2, and V3) | VCTL | -0.5 | +3.0 | V |
| RF input power (RF1 to RF7) | PIN |  | +37.5 | dBm |
| RF input power (50_OHM) | PIN |  | +27 | dBm |
| Operating temperature | Top | -40 | +90 | ${ }^{\circ} \mathrm{C}$ |
| Storage temperature | TsTG | -55 | +150 | ${ }^{\circ} \mathrm{C}$ |
| Electrostatic Discharge, Human Body Model (HBM), Class 1C | ESD |  | 1000 | V |

Note 1: Exposure to maximum rating conditions for extended periods may reduce device reliability. There is no damage to device with only one parameter set at the limit and all other parameters set at or below their nominal value. Exceeding any of the limits listed here may result in permanent damage to the device.

CAUTION: Although this device is designed to be as robust as possible, Electrostatic Discharge (ESD) can damage this device. This device must be protected at all times from ESD. Static charges may easily produce potentials of several kilovolts on the human body or equipment, which can discharge without detection. Industry-standard ESD precautions should be used at all times.

## Functional Description

The SKY13417-485LF includes an internal negative voltage generator and decoder that eliminate the need for external DC blocking capacitors on the RF ports. No external components are required for proper operation. DC decoupling capacitors may be added on the VDD and control lines if necessary.

Switching is controlled by three control voltage inputs, V1, V2, and V3. Depending on the logic voltage level applied to the control pins, the antenna pin is connected to one of seven switched RF outputs or a $50 \Omega$ termination.
The recommended startup sequence is:

1. Apply VDD
2. Apply V1, V2, and V3 voltages
3. Apply RF input

The device must be turned off in reverse order.

## Electrical and Mechanical Specifications

The absolute maximum ratings of the SKY13417-485LF are provided in Table 2. Electrical specifications are provided in Table 3.
The state of the SKY13417-485LF is determined by the logic shown in Table 4.
The isolation matrix shown in Table 5 provides the port-to-port isolation for all available RF states at three different frequencies: 1.0 GHz, 2.0 GHz, and 2.7 GHz.

Table 3. SKY13417-485LF General Electrical Specifications (Note 1)


| Parameter | Symbol | Test Condition (Note 2) | Min | Typical | Max | Units |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DC Specifications |  |  |  |  |  |  |
| Supply voltage | VdD |  | 2.5 | 3.0 | 4.8 | V |
| Supply current | IDD |  |  | 40 | 50 | $\mu \mathrm{A}$ |
| Control voltage: High Low | Vatl_h <br> Vctl_L |  | 1.35 | 1.80 | $\begin{gathered} 2.70 \\ 0.3 \end{gathered}$ | $\begin{aligned} & \text { V } \\ & \text { V } \end{aligned}$ |
| Control current | ICTL | V CTL $=1.8 \mathrm{~V}$ |  | 0.5 | 1.0 | $\mu \mathrm{A}$ |
| Turn-on switching time | ton | $50 \%$ of final control voltage to $90 \%$ of final RF power, switching between RF1/2/3/4/5/6/7/50_OHM |  | 1.5 | 2.2 | $\mu \mathrm{s}$ |
| RF Specifications |  |  |  |  |  |  |
| Insertion loss (ANT pin to RF1/2/3/4/5/6 pins) | IL | $\begin{aligned} & 0.1 \text { to } 1.0 \mathrm{GHz} \\ & 1.0 \text { to } 2.0 \mathrm{GHz} \\ & 2.0 \text { to } 2.7 \mathrm{GHz} \end{aligned}$ |  | $\begin{aligned} & 0.45 \\ & 0.55 \\ & 0.70 \end{aligned}$ | $\begin{aligned} & 0.50 \\ & 0.60 \\ & 0.90 \end{aligned}$ | $\begin{aligned} & \mathrm{dB} \\ & \mathrm{~dB} \\ & \mathrm{~dB} \end{aligned}$ |
| Insertion loss (ANT pin to RF7 pin) | IL | $\begin{aligned} & 0.1 \text { to } 1.0 \mathrm{GHz} \\ & 1.0 \text { to } 2.0 \mathrm{GHz} \\ & 2.0 \text { to } 2.7 \mathrm{GHz} \end{aligned}$ |  | $\begin{aligned} & \hline 0.45 \\ & 0.60 \\ & 0.80 \end{aligned}$ | $\begin{aligned} & 0.55 \\ & 0.75 \\ & 1.05 \end{aligned}$ | $\begin{aligned} & \mathrm{dB} \\ & \mathrm{~dB} \\ & \mathrm{~dB} \end{aligned}$ |
| Isolation (ANT pin to RF1/2/3/4/5/6 pins) | Iso | $\begin{aligned} & 0.1 \text { to } 1.0 \mathrm{GHz} \\ & 1.0 \text { to } 2.0 \mathrm{GHz} \\ & 2.0 \text { to } 2.7 \mathrm{GHz} \end{aligned}$ | $\begin{aligned} & 30 \\ & 28 \\ & 18 \end{aligned}$ | $\begin{aligned} & 37 \\ & 31 \\ & 27 \end{aligned}$ |  | $\begin{aligned} & \mathrm{dB} \\ & \mathrm{~dB} \\ & \mathrm{~dB} \end{aligned}$ |
| Isolation (ANT pin to RF7 pin) | Iso | $\begin{aligned} & 0.1 \text { to } 1.0 \mathrm{GHz} \\ & 1.0 \text { to } 2.0 \mathrm{GHz} \\ & 2.0 \text { to } 2.7 \mathrm{GHz} \end{aligned}$ | $\begin{aligned} & 29 \\ & 23 \\ & 19 \end{aligned}$ | $\begin{aligned} & 31 \\ & 24 \\ & 21 \end{aligned}$ |  | $\begin{aligned} & \mathrm{dB} \\ & \mathrm{~dB} \\ & \mathrm{~dB} \end{aligned}$ |
| Input return loss (ANT pin to RF1/2/3/4/5/6 pins) | RL | $\begin{aligned} & 0.1 \text { to } 1.0 \mathrm{GHz} \\ & 1.0 \text { to } 2.0 \mathrm{GHz} \\ & 2.0 \text { to } 2.7 \mathrm{GHz} \end{aligned}$ | $\begin{aligned} & 24 \\ & 23 \\ & 15 \end{aligned}$ | $\begin{aligned} & 27 \\ & 25 \\ & 18 \end{aligned}$ |  | $\begin{aligned} & \mathrm{dB} \\ & \mathrm{~dB} \\ & \mathrm{~dB} \\ & \hline \end{aligned}$ |
| Input return loss (ANT pin to RF7 pin) | RL | $\begin{aligned} & 0.1 \text { to } 1.0 \mathrm{GHz} \\ & 1.0 \text { to } 2.0 \mathrm{GHz} \\ & 2.0 \text { to } 2.7 \mathrm{GHz} \end{aligned}$ | $\begin{aligned} & 21 \\ & 15 \\ & 11 \end{aligned}$ | $\begin{aligned} & 24 \\ & 18 \\ & 13 \end{aligned}$ |  | $\begin{aligned} & \mathrm{dB} \\ & \mathrm{~dB} \\ & \mathrm{~dB} \end{aligned}$ |
| Second harmonics (ANT pin to RF1/2/3/4/5/6/7 pins) | 2 fo | $\begin{aligned} & \mathrm{PiN}=+26 \mathrm{dBm}, \\ & 0.1 \text { to } 3.0 \mathrm{GHz} \end{aligned}$ |  | +92 |  | dBc |
| Third harmonics (ANT pin to RF1/2/3/4/5/6/7 pins) | 3 fo | $\begin{aligned} & \mathrm{PiN}=+26 \mathrm{dBm}, \\ & 0.1 \text { to } 3.0 \mathrm{GHz} \end{aligned}$ |  | +93 |  | dBc |
| 0.1 dB Compression Point (ANT pin to RF1/2/3/4/5/6/7 pins) | P0.1dB | 0.8 GHz to 3.0 GHz |  | +37.5 |  | dBm |
| $3{ }^{\text {rd }}$ Order Input Intercept Point | IIP3 | $\begin{aligned} & @ 2.0 \mathrm{GHz}, \\ & \mathrm{Pin}=+26 \mathrm{dBm}, \\ & \Delta \mathrm{f}=1 \mathrm{MHz} \end{aligned}$ |  | +66 |  | dBm |

Note 1: Performance is guaranteed only under the conditions listed in this Table.

Table 4. SKY13417-485LF Control Logic

| Control Pins |  |  | Switched RF I/O |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { V1 } \\ (\text { Pin } 7) \end{gathered}$ | $\begin{gathered} \text { V2 } \\ \text { (Pin 6) } \end{gathered}$ | $\begin{gathered} \text { V3 } \\ \text { (Pin 5) } \end{gathered}$ | $\begin{gathered} \text { RF1 } \\ \text { (Pin 3) } \end{gathered}$ | $\begin{gathered} \text { RF2 } \\ \text { (Pin 9) } \end{gathered}$ | $\begin{gathered} \text { RF3 } \\ \text { (Pin 2) } \end{gathered}$ | $\begin{gathered} \text { RF4 } \\ \text { (Pin 10) } \end{gathered}$ | $\begin{gathered} \text { RF5 } \\ \text { (Pin 1) } \end{gathered}$ | $\begin{gathered} \text { RF6 } \\ \text { (Pin 11) } \end{gathered}$ | $\begin{gathered} \text { RF7 } \\ \text { (Pin 14) } \end{gathered}$ | $50 \Omega$ |
| 0 | 0 | 0 | Insertion Loss | Isolation | Isolation | Isolation | Isolation | Isolation | Isolation | Isolation |
| 0 | 0 | 1 | Isolation | Insertion Loss | Isolation | Isolation | Isolation | Isolation | Isolation | Isolation |
| 0 | 1 | 0 | Isolation | Isolation | Insertion Loss | Isolation | Isolation | Isolation | Isolation | Isolation |
| 0 | 1 | 1 | Isolation | Isolation | Isolation | Insertion Loss | Isolation | Isolation | Isolation | Isolation |
| 1 | 0 | 0 | Isolation | Isolation | Isolation | Isolation | Insertion Loss | Isolation | Isolation | Isolation |
| 1 | 0 | 1 | Isolation | Isolation | Isolation | Isolation | Isolation | Insertion Loss | Isolation | Isolation |
| 1 | 1 | 0 | Isolation | Isolation | Isolation | Isolation | Isolation | Isolation | Insertion Loss | Isolation |
| 1 | 1 | 1 | Isolation | Isolation | Isolation | Isolation | Isolation | Isolation | Isolation | $50 \Omega$ |

Note 1: "High" $=1.8 \mathrm{~V}$; "Low" $=0 \mathrm{~V}$. Any state other than that described in this Table places the switch into an undefined state. An undefined state will not damage the device.

Table 5. Isolation Matrix (1 of 2)

| "On" Port | Frequency (GHz) | Isolation <br> (dB) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 |
| Antenna-to-Port |  |  |  |  |  |  |  |  |
| RF1 | 1.0 | - | -50 | -39 | -44 | -40 | -38 | -31 |
| RF1 | 2.0 | - | -41 | -32 | -36 | -31 | -32 | -24 |
| RF1 | 2.7 | - | -37 | -29 | -33 | -27 | -29 | -21 |
| RF2 | 1.0 | -47 | - | -41 | -39 | -37 | -40 | -31 |
| RF2 | 2.0 | -40 | - | -35 | -32 | -31 | -31 | -25 |
| RF2 | 2.7 | -36 | - | -32 | -28 | -28 | -27 | -22 |
| RF3 | 1.0 | -39 | -48 | - | -43 | -42 | -39 | -32 |
| RF3 | 2.0 | -32 | -40 | - | -36 | -31 | -32 | -25 |
| RF3 | 2.7 | -29 | -36 | - | -33 | -27 | -29 | -21 |
| RF4 | 1.0 | -46 | -39 | -41 | - | -37 | -42 | -31 |
| RF4 | 2.0 | -39 | -32 | -35 | - | -31 | -31 | -25 |
| RF4 | 2.7 | -35 | -29 | -32 | - | -28 | -27 | -22 |
| RF5 | 1.0 | -48 | -48 | -39 | -44 | - | -40 | -35 |
| RF5 | 2.0 | -36 | -40 | -31 | -37 | - | -32 | -26 |
| RF5 | 2.7 | -31 | -36 | -28 | -33 | - | -29 | -22 |
| RF6 | 1.0 | -46 | -48 | -42 | -39 | -38 | - | -32 |
| RF6 | 2.0 | -39 | -36 | -35 | -32 | -32 | - | -25 |
| RF6 | 2.7 | -35 | -31 | -32 | -28 | -28 | - | -22 |

Table 5. Isolation Matrix (2 of 2)

| "On" Port | Frequency (GHz) | Isolation (dB) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 |


| Antenna-to-Port (continued) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RF7 | 1.0 | -46 | -48 | -47 | -45 | -42 | -41 | - |
| RF7 | 2.0 | -36 | -40 | -35 | -37 | -32 | -33 | - |
| RF7 | 2.7 | -31 | -36 | -30 | -33 | -27 | -29 | - |
| Port-to-Port |  |  |  |  |  |  |  |  |
| RF1 | 1.0 | - | -52 | -31 | -52 | -42 | -43 | -38 |
| RF1 | 2.0 | - | -42 | -24 | -43 | -33 | -37 | -31 |
| RF1 | 2.7 | - | -38 | -21 | -39 | -28 | -34 | -28 |
| RF2 | 1.0 | -52 | - | -48 | -31 | -41 | -42 | -34 |
| RF2 | 2.0 | -41 | - | -40 | -24 | -35 | -33 | -28 |
| RF2 | 2.7 | -37 | - | -37 | -21 | -33 | -29 | -26 |
| RF3 | 1.0 | -31 | -55 | - | -52 | -32 | -44 | -42 |
| RF3 | 2.0 | -24 | -43 | - | -43 | -25 | -37 | -32 |
| RF3 | 2.7 | -21 | -39 | - | -39 | -21 | -35 | -28 |
| RF4 | 1.0 | -53 | -31 | -48 | - | -41 | -33 | -34 |
| RF4 | 2.0 | -42 | -25 | -40 | - | -35 | -26 | -29 |
| RF4 | 2.7 | -38 | -21 | -37 | - | -33 | -22 | -26 |
| RF5 | 1.0 | -37 | -55 | -31 | -53 | - | -46 | -39 |
| RF5 | 2.0 | -30 | -44 | -24 | -43 | - | -38 | -28 |
| RF5 | 2.7 | -27 | -39 | -21 | -39 | - | -35 | -23 |
| RF6 | 1.0 | -54 | -37 | -49 | -31 | -43 | - | -36 |
| RF6 | 2.0 | -42 | -30 | -40 | -24 | -36 | - | -29 |
| RF6 | 2.7 | -38 | -27 | -37 | -21 | -33 | - | -27 |
| RF7 | 1.0 | -40 | -54 | -38 | -54 | -33 | -48 | - |
| RF7 | 2.0 | -33 | -43 | -30 | -42 | -25 | -39 | - |
| RF7 | 2.7 | -30 | -39 | -27 | -38 | -22 | -34 | - |

## Evaluation Board Description

The SKY13417-485LF Evaluation Board is used to test the performance of the SKY13417-485LF SP7T Switch. An Evaluation Board schematic diagram is provided in Figure 3. An assembly drawing for the Evaluation Board is shown in Figure 4.

## Package Dimensions

The PCB layout footprint for the SKY13417-485LF is provided in Figure 5. Typical case markings are shown in Figure 6. Package dimensions for the 14-pin QFN are shown in Figure 7, and tape and reel dimensions are provided in Figure 8.

## Package and Handling Information

Instructions on the shipping container label regarding exposure to moisture after the container seal is broken must be followed. Otherwise, problems related to moisture absorption may occur when the part is subjected to high temperature during solder assembly.
THE SKY13417-485LF is rated to Moisture Sensitivity Level 1 (MSL1) at $260^{\circ} \mathrm{C}$. It can be used for lead or lead-free soldering. For additional information, refer to the Skyworks Application Note, PCB Design \& SMT Assembly/Rework Guidelines for MCM-L Packages, document number 101752.
Care must be taken when attaching this product, whether it is done manually or in a production solder reflow environment. Production quantities of this product are shipped in a standard tape and reel format.


Figure 3. SKY13417-485LF Evaluation Board Schematic


Figure 4. SKY13417-485LF Evaluation Board Assembly Diagram


Figure 5. SKY13417-485LF PCB Layout Footprint (Top View)


Figure 6. Typical Part Markings (Top View)


Figure 7. SKY13417-485LF 14-Pin QFN Package Dimensions


Figure 8. SKY13417-485LF Tape and Reel Dimensions

## Ordering Information

| Model Name | Manufacturing Part Number | Evaluation Board Part Number |
| :---: | :--- | :--- |
| SKY13417-485LF 0.7-2.7 GHz SP7T Switch | SKY13417-485LF | SKY13417-485LF-EVB |

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