

PRODUCT SUMMARY

SKY13638-700LF: 0.4 to 3.8 GHz SP10T LTE Transmit/Receive Switch with MIPI RFFE Interface

Applications

- 3G/4G multimode cellular tablets and handsets (LTE, UMTS, CDMA2000)
- Embedded data cards

Features

- Broadband frequency range: 0.4 to 3.8 GHz
- Low insertion loss, 0.75 dB typical @ 2.7 GHz
- High isolation and linearity
- Multi-closed function for CA applications
- Integrated, programmable MIPI Version 2.0 interface
- Default USID = 1010
- \bullet Ten linear TRX ports with isolation greater than 26 dB @ 2.7 GHz
- Small QFN (20-pin, 2.4 x 2.4 x 0.50 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



Skyworks Green[™] products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green*[™], document number SQ04–0074.

Description

The SKY13638-700LF is a single-pole, ten-throw (SP10T) antenna switch with a Mobile Industry Processor Interface (MIPI), Version 2.0.

Using advanced switching technologies, the SKY13638-700LF maintains low insertion loss and high isolation for both transmit and receive switching paths. The high-linearity performance and low insertion loss achieved by the SKY13638-700LF make it an ideal choice for UMTS, CDMA2000, and LTE applications.

The switch also exhibits an excellent triple beat ratio and second/third order intermodulation distortion (IMD) performance. Switching is controlled by an integrated MIPI interface. Depending on the logic applied to the decoder, the antenna pin is connected to 1 of 10 switched RF ports using a low insertion loss path, while the paths between the antenna pin and the other RF pins are in a high-isolation state. No external DC blocking capacitors are required on the RF paths.

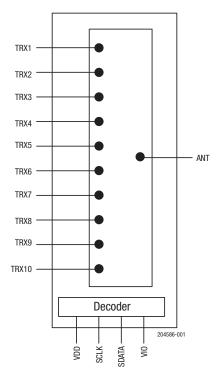


Figure 1. SKY13638-700LF Block Diagram

Any two arms can be switched on at the same time with multi-closed function for CA applications.

The SKY13638-700LF is manufactured in a compact, 2.4 x 2.4 x 0.50 mm, 20-pin surface-mount Quad Flat No-Lead (QFN) package.

A functional block diagram is shown in Figure 1.

Ordering Information

Product Description	Product Part Number	Evaluation Board Part Number
SKY13638-700LF: 0.4 to 3.8 GHz SP10T LTE Transmit/Receive Switch with		
MIPI RFFE Interface	SKY13638-700LF	SKY13638-700EK1

Copyright © 2017 Skyworks Solutions, Inc. All Rights Reserved.

Information in this document is provided in connection with Skyworks Solutions, Inc. ("Skyworks") products or services. These materials, including the information contained herein, are provided by Skyworks as a service to its customers and may be used for informational purposes only by the customer. Skyworks assumes no responsibility for errors or omissions in these materials or the information contained herein. Skyworks may change its documentation, products, services, specifications or product descriptions at any time, without notice. Skyworks makes no commitment to update the materials or information and shall have no responsibility whatsoever for conflicts, incompatibilities, or other difficulties arising from any future changes.

No license, whether express, implied, by estoppel or otherwise, is granted to any intellectual property rights by this document. Skyworks assumes no liability for any materials, products or information provided hereunder, including the sale, distribution, reproduction or use of Skyworks products, information or materials, except as may be provided in Skyworks Terms and Conditions of Sale.

THE MATERIALS, PRODUCTS AND INFORMATION ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, INCLUDING FITNESS FOR A PARTICULAR PURPOSE OR USE, MERCHANTABILITY, PERFORMANCE, QUALITY OR NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT; ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED. SKYWORKS DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. SKYWORKS SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO ANY SPECIAL, INDIRECT, INCIDENTAL, STATUTORY, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS THAT MAY RESULT FROM THE USE OF THE MATERIALS OR INFORMATION, WHETHER OR NOT THE RECIPIENT OF MATERIALS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Skyworks products are not intended for use in medical, lifesaving or life-sustaining applications, or other equipment in which the failure of the Skyworks products could lead to personal injury, death, physical or environmental damage. Skyworks customers using or selling Skyworks products for use in such applications do so at their own risk and agree to fully indemnify Skyworks for any damages resulting from such improper use or sale.

Customers are responsible for their products and applications using Skyworks products, which may deviate from published specifications as a result of design defects, errors, or operation of products outside of published parameters or design specifications. Customers should include design and operating safeguards to minimize these and other risks. Skyworks assumes no liability for applications assistance, customer product design, or damage to any equipment resulting from the use of Skyworks products outside of stated published specifications or parameters.

Skyworks and the Skyworks symbol are trademarks or registered trademarks of Skyworks Solutions, Inc. or its subsidiaries in the United States and other countries. Third-party brands and names are for identification purposes only, and are the property of their respective owners. Additional information, including relevant terms and conditions, posted at www.skyworksinc.com, are incorporated by reference.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for RF Development Tools category:

Click to view products by Skyworks manufacturer:

Other Similar products are found below :

MAAM-011117 MAAP-015036-DIEEV2 EV1HMC1113LP5 EV1HMC6146BLC5A EV1HMC637ALP5 EVAL-ADG919EBZ ADL5363-EVALZ LMV228SDEVAL SKYA21001-EVB SMP1331-085-EVB EV1HMC618ALP3 EVAL01-HMC1041LC4 MAAL-011111-000SMB MAAM-009633-001SMB 107712-HMC369LP3 107780-HMC322ALP4 SP000416870 EV1HMC470ALP3 EV1HMC520ALC4 EV1HMC244AG16 MAX2614EVKIT# 124694-HMC742ALP5 SC20ASATEA-8GB-STD MAX2837EVKIT+ MAX2612EVKIT# MAX2692EVKIT# EV1HMC629ALP4E SKY12343-364LF-EVB 108703-HMC452QS16G EV1HMC863ALC4 EV1HMC427ALP3E 119197-HMC658LP2 EV1HMC647ALP6 ADL5725-EVALZ 106815-HMC441LM1 EV1HMC1018ALP4 UXN14M9PE MAX2016EVKIT EV1HMC939ALP4 MAX2410EVKIT MAX2204EVKIT+ EV1HMC8073LP3D SIMSA868-DKL SIMSA868C-DKL SKY65806-636EK1 SKY68020-11EK1 SKY67159-396EK1 SKY66181-11-EK1 SKY65804-696EK1 SKY13396-397LF-EVB